A R T

SURGERY:

In which is laid down

Such a general IDEA of the same, as is founded upon REASON, confirm'd by PRACTICE, and farther illustrated with many singular and rare Cases MEDICO-CHIRURGICAL.

In Two VOLUMES.

WITH AN

Introductory INDEX,

SHEWING

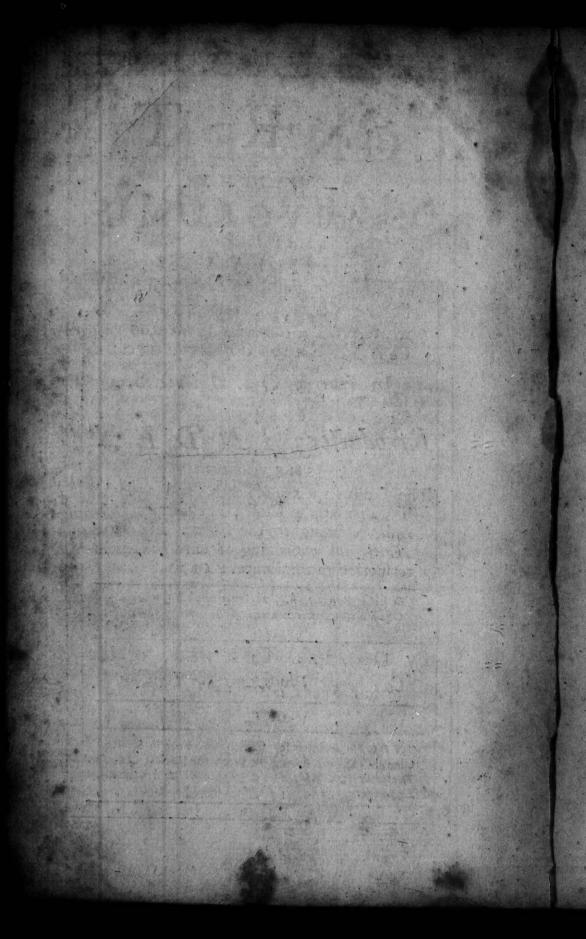
The CONTENTS of each, and a double TABLE at the Close; the former Historical, referring to the Cases: The latter Ætiological, explaining of hard Words interspersed in the several PARTS.

Ο Βί Θ Βεσκύς, ή ή τέχνη μακεή ὁ ή καιρὸς Οξύς ή ή πῶρα σφαλερή, ή ή κείσις χαλεπή. Ηippoc. pars primi Aphor,

By DANIEL TURNER, of the College of Physicians of London.

VOL. II.

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ART OF SURGERY.

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SECT. VI.

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Of Ulcers in general.



N our two last Sections, we began and finish'd our Account of Wounds in gene-I le ral, as well as those of the particular Parts: In this I shall entertain you with that of Ukers, intending to be more

brief, and to thut up herein all I have to offer upon this Head. Whether or no this Discourse should not have preceded the two former, according to the Method of fome Writers, may be disputed. But I having ty'd my felf to no particular Prefident to think the same as well observed now, and that there will be found as many Ulcers that are owing to Wounds neglected, ill condition'd, or ignorantly handled, as to Abscelles or Apostems, or other Accidents whether External or Internal; letting this passion who were the second to the

ENVOL. II.

This

This Disease, which in Greek is called the by the Latines Ulcus, may be defin'd alfo, as the Wound, Solution of the Continuum in any part of the Body. but occasion'd by some sharp Humour eating into and corrupting the Frame or Texture thereof, which faid Humour does in a Manner as effentially difference the Ulcer, as the inflicting Infirument the Wound.

The Ulcer

And thus where the same is thin and Sanious, desin'd, with like Water wherein raw Flesh has been steeped, fes and dif called Gleet, Ichor, also Sanies, it may be called a ferences. Gleeting, Ichoruos, but is usually a Sanious Ulcer. when more thick and vifeid, slicking like a fort of Gluten to the Bottom, and termed Sordes, it goes under the Appellation of a fordid Ulcer Again, when Matter of mean confiftence, called Pus flows in large quantity, it is known by that of a purulent Ulcer.

From the Humour likewise grown Corrosive. fretting and spreading farther, comes the depafcent or eating and serpiginous Ulcers, as those Epithets imply in their Exymology. From the milder, or the nutritive Juice luxuriant, and abounding in the same. the fungous Ulcer, or the Ulcer with spongy Flesh.

From the attending Intemperies, as if bot and don enfues the Uker with Pain and Fluxion: If cold and moift, the putrid Ulter: From Contagion or Infection arifeth the Peftilential and Venereal Ulcer.

There are many Accidents also or Symptoms with which this Difease is complicate, and from

whence it is denominated.

Thus, when the Juices flowing to the same, that should be turned into Matter, either for its Digestion, or good Flesh for its Incarning, are by the foregoing Intemperies, condens'd and harden'd round about the fides or edges, the Callons Ulcer is produ-

When the Matter hath infinuated it felf under the Skin or Flesh, as is common after Apostems, from the Simuosity or hollowness thereby occasion'd, we pronounce it a Sinuous Ulcer, which after some time growing narrower, and hard, for want of timely opening, or seated where the same is hazardous, as about the Joynts, among the Ligaments and Tendons, near the Groyn or Arm-pits, or penetrating into the Cavities of the Body, hard I say, not only at its entrance, but through its whole Passage, like a Pipe; it is thence distinguish'd by the Word Fistula, or is a fistulous Ulcer.

If fituate close upon, or fed by some knotty obstructed Vein, we call Varix, it borrows thence

its Epithet of a varicous Ulcer.

When by the virulency or malignity of the Humourit felf internally, the cold Air, or other occasion externally, the cover of the Bone is eaten of, and the Bone it Telf contaminated or eroded by a Caries or rotteness thereof thence arising, it is stilled a Carious Ulcer.

Farther, from the Figure, we say an Ulcer is Round, Angular, Even, Jagged, Superficial or Profound, which last is also described as with loss of Substance.

By Age or time of its Continuance, it is recent and mild, and old, for as it is call'd by fome of our

Authors, Annual, and Rebellious.

It would be too tedious and almost endless, to enumerate the Circumstances that diversify one way or other this Disease, which by the Antients had most of them accordingly their Denominations originally from the Greek Tongue, without a Knowledge of which, at least so far as to come at the derivation of our common Terms, the I can allow a Man may be a good Artist, yet but a lame Theorist, talking daily many Words like a Parrot, which he knows not the meaning of; and this I mention not, I protest to you, by way of resection, for I know many of you to be good Scholars,

as well as excellent Artists, but as a Spur to excite the Industry of such as are wanting in this Knowledge of the learned Languages, to obtain by all means fo much thereof as may give them fome Idea of the Æsymology, or ground of the Phrafes they must continually converse with: As fr Instance, when they read of one Ulcer being called Noma, a putrid one so named by the old Writers, they may perceive it has that Name, a rique depasco, an other of like corrosive Nature, Phagedana a odywedo, as formerly remark'd : a Dysepulotic Ulcer. is sotermed ex sue difficile, eni Super, & but integer, from its difficulty to be brought to a Cicatrix of to skin over; that all Ulcers which are stubborn, or as they are termed, rebellious, come under the Name of Cacoethic, a Word frequently met with in chyrurgic Treatifes, derived ex nandy Ma-Jum, O 130 Mos, vel Mali Moris, of an evil Dispotion, the Herpes ab sew ferpo, from whence the Serpigo, implying the same fretful and spreading Malady.

But least I should seem to you to act the Pedam, by a vain Ostentation or show of Learning, I will at present trace no more of these Names, with some other hard Words interspers athroughout these Sections, from their Originals, but leave them to be found, as you shall see occasion, at the close: Which every one who is desirous to give a Reason for what he talks, will doubtless enquire after, and for whose sake I shall insert a Table thereof

Alphabetically digested.

There are yet two other Ukers, and those of the worst sort, which altho' they may be properly enough ranked under some of them already described, yet is the Original of both derived from the Mithologists of old Times, or the Fables of the Poets; I mean the Telephian and Chyronian, the first so call'd from Telephus a King of Mysia, Son to the famous Hercules, who

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who falling out with the Gracians in their Expedition against Troy, was wounded by Achilles, the Son of Peleus King of Thessaly, and could have no Cure but by the Rust of the same Instrument which gave the Wound.

And hence probably not only the Source of our Weapon Salve, but the like fabulous Accounts of Sympathetic Cures . The other from Chiron the Centaur, Son of Saturn, who like to be surprized in Adultery by his Wife, transformed himself, as the Fable bas it, into a Horse, upon which his Paramour conceiving, brought forth a kind of Monster, having the upper part Man, and the rest a Horse: Nowithstanding which, you must know he was a most excellent Physician and Surgeon too, being Master even to the Father of Physic, as is fometimes stiled the great Æsculapius: It was this Monster of a Man they say, that made Apollo a Musician, and Hercules an Aftronomer, but for the Cure of rebellious Sores or Ukers, when they had tried all others, they were forced it feems to be beholden to Chiran, for their Cure: And thus you have the Poets ground for calling stubborn Ulcers by the Name Chyronian; but whether this Telephus or Chiron, were in being when the valiant Achilles receiv'd his Wound in the Heel, which Wound proy'd Mortal, I know not. This indeed flands farther upon Record, that our Herb Centaury, a most famous Vulnerary, is derived from him as a Centaur, and is by others named Chironion, from his Name Chiron, as is also our wild. Purflane Telephion, from Telephus, [who was also a Botanist] above mentioned.

But leaving these, which however less instructive, are I think a harmless Amusement, and returning, there is a farther distinction of Ukers, truly worthy of your Notice, that is some Distender which may be said to be, if not an Original, at A 3

least a Foster Parent, and without respecting which, as was said at the close of our last, concerning Wounds, there will be no healing the Offspring: 'Thus the Scorbutic, the Strumous, and the Venereal Habits, will require a different internal Regimen, altho' their Ulcers probably may be treated with the same local Remedies, concerning which I will no longer detain you, since what I have said, will I think, serve to furnish the most material Differences and Distinctions.

As to the Causes of Ulcers in general, we have already observed them to be sharp Humours freting of the Skin, and preying on the Flesh underneath, arising either externally, as by Burns and the like hurts, or internally from the Blood its felf, or some Dyscrasy in its Juices, particularly the acrid or falt Serum thereof; hence Abscesses or Apostems, being broke or open'd, from the acrimony of the Humours, often terminate in freeful Ulcers: Among the external Causes are likewise Wounds, which by reason of the Fluxion attending from the ill Habits abovemention'd, having loft their first shape, and remaining still hard of healing, neither admitting Symphifis, nor readily incarning by Syffarcofis, but growing rather deeper, and inlarging their Borders, degenerate into this Difeafe, and quitting their former Apellation of Wound, are called now by that of Ulcer.

In respect to these, there are some who are for a definite time set for the Wound to commence an Ulcer; but considering the nature and differences of Wounds themselves, I think this is much better dated from the foresaid change of Figure, whether into one of greater prosoundity or amplitude in the outer Dimensions, than directly from their Age: Since one after many Days or Weeks may properly enough retain its first Name of Wound,

whilft

whilst an other in half the time, by its corrofive or virulent Humour falling down and preying on the Parts, may be call'd by that of Ulcer. As for the Absces, open'd especially by a Caustick, there may be no abfurdity for ought I fee, even the first Moment of the Eschar casting of, to deno-

minate the raw place an Uker.

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The Diagnostics of this Disease are self-evident, Diagnowhen feated upon the outward Parts of the Body, flics of inbut if internal, we are to gather them from the ternal Ul-Complaint and the Matter, as also the way of Excretion: Thus purulent Matter vomited together with the Aliments, a Sense of preceeding Pain and Anguish upon the same Region, indicates the Stomach Ulcerated: But if Coughed up, the Patient complaining of Pain and Soreness upon the Cheft. fraitness and Oppression, inflammatory Disorder antecedent, and a subsequent Hectic, the Ulcer is in the Lungs; If issuing forth the Pudendum, the complaint about that Region, in the Womb: but if flowing together with the Urine, attended with Dyfuria, Stranguaria vel Ischuria, in the Bladder or its Sphinter; if between the times of making Water, the same Issues through the urinary Passage in Men. without complaint of Pain in the Parts, the Seat of the Ulcer, according to some, is in the prestate Glands; but by later Discovery, in those of the Urethra, called a Clap or running of the Reins; if in like manner out of the Vagina in Women, it is either the same or a fluor Albas: to distinguish which, I have directed you in my Siphilis, or practical Differtation on the Venereal Disease. Lastly, if purulent Matter less fætid than that from the Bladder, flow together in large quantity with the Urine, a gravative or tiresome Pain upon the Loins, we justly suspect an Ulcer in the Kidney. But pretermitting any farther Account of these, as falling more directly un-

der the care of the Phylician, we shall touch upon the prognostic Signs of Ulcers in general, andthen haften to their Cure.

Prognoneral.

These are taken usually from the places of their stics of Ul- Situation, their Complication and Duration: Thus cers in ge- the Ulcers of the Eye, Nose, the inward Part of the Mouth or Throat, outwardly on the glandulous Parts of the Neck, Ulcers on the Breast and lower Belly, also on the Legs, the Joynts among the Ligaments, tendinous or nervous Parts, are more troublesome than those upon the Skin or Flesh of some other Parts.

> From their Complication and Corrolive malign Nature, fo the Hydropic, Strumous, Scorbutic, Venereal, the Sinuous, much more the Fifulous, the Fungous, Exedent, Putrid, Varicous, Callous, Carious, but above all the Cancerous, are more troublesome, hazardous and dangerous, than when unaccom-

pany'd with those Accidents.

From their Age or Continuance, in which respect the Old, or, asthey are call'd by some, Annual Ukers. are generally more stubborn and rebellious in their healing, than the Recent, and which being healed, are not void of Danger, unless all imaginable Care be taken in confulting the Phylicians that by the most exact Physical Regimen, the luices of the Blood may be rectify'd, before the same are closed, least the ancient Sluice shut up. through which the Humours have been fo long accustom'd to evacuate, the same pent up in the Vessels, kindle a Hectic Flame; or seizing the tender substance of the Lungs, produce a Pulmonary, or Secondary Symptomatic Phthisis, and bring on a Marasmus. In a Word, Ulcers which are the effect of some preceeding Distemper, as we have already just now remark'd, viz. the Dropsy, Scurey, Kings-Evil, Pox, or the like, have their Prognestics depending very much on the facility or difficulty of curing

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curing such Distempers: The Hydropic particularly is most apt to Gangrene and Mortify, the Scorbutic and Strumous both difficult and tedious, the Venereal, if the Patient hath not been too much tamper'd with, and accustom'd to the Mercurials, at least was never Salivated, more hopeful.

In the Cure of Ulcers in general as well as Wounds, Cure of Ulthere are many Intentions, as 1. The Intemperies cers in gentlement of the control of the contro attending, whether bot, cold, moist or dry, or compounded thereof, must be corrected, together with the Pain and Fluxion owing thereunto, which in like manner is to be averted, 2. The particular Symptoms appertaining to each, and which obstruct the Cure, are diligently to be regarded: Thus in One, the Callosity is to be soften'd and rendred more pliable; in a Second, the Fungus Corrected, called otherways Hyperfarcofis; in a Third, the Sinuofity dilated, in a Fourth, the Putrifaction subdued in a Fifth, the Varix supprest or repel'd, if not eradicated; in a Sixth, the Caries exfoliated; and fo of the rest: Whilst in all the Cachochymy of the Blood is Purged, and its particular Dyscrasy amended by Specifics, whether Antihydropic, Antifeorbutic, Antistrumatic, Antivenereal, or other proper Alteratives, as may best conduce to master the Distemper, of which the feveral Ulcers may prove to be the Offfpring: Before we to touch on each particular whereof, I must farther acquaint you, that asthey may be faid to have all their four particular Times or Stations in like manner with other Difeases, viz. Beginning Augment, State and Declention: So have they all, unless you please to except the simple Cutaneous, which after Digesting requires only a new Skin, Foun general Indications for their Oure, I mean Digestion, Mundification or Detersion, Incarnation and Cicatrifation; of which we have already taken some notice in our last concerning Wounds where 2111

where these Intentions were also wanting, and for which Cause we may be the shorter here: However, before we enter upon particular Ulcers, we shall in as sew Words as possible, direct the young Practitioner how he may best answer, I mean with what Medicines, each of these foregoing Indications, and first for his Directions.

first for his Digestives.

In Order to the Digesting of an Ulcer, you have Digestives. that old Medicament of the Terebinth, cum Ovi vitello, with or without Basilicon, which is yet in use with some, as likewise the said Basilicon, to which in regard of the Name, we should pay a mighty respect; and truly tho' we took little notice of it in our former Discourse of Wounds, giving then 23 just precedence to the Linimentum Arcai, yet in Ulcers is often call'd for, especially that which of late Years is prepar'd with a full quantity of Wax. and leaving out the Pitch, whence from its Colour, it hath received its additional Epithet of Flavum. The Ol. Hyperic. Lumbric. Lil. either run down with Terebinth, or some of the foresaid Royal Ointment, nam'd Bafilicon, are notable Digestives in some Cases: But in the use of such Medicaments, you' must regard Temperaments, and the condition of the Uker; I mean the Intemperies thereof, the Sense of the Part and Site of the same. For Example in dry Habits, with a hot Intemperies, the Ulcer in a fleshy Part, you may use the Basilicon by it self, or melted down in a Spoon with a small proportion of the Ol. Hyper. In the Corpulent, with a cold or moist Intemperies, the Oils may be left out, and the Bafiticon mix'd with the Linimentum Arcai, or a little of the Balf. Tereb. when if the Parts are sensible, these may fuffice, but if less so, or where great Putrifaction attends, the Ol. Tereb. may be added, or the Ungt. Ægypt.likewise the Pracipit. rub. without which Chirurgery would be defective may be sprinkled on the

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the Ulcer, when the Sordes lyes deep, or mix'd with your Digestive, when loose or superficial; at these times also your Fomentations are necessary, prepar'd of the warm disentient Plants, to assist the heat of the Part, where the same is desicient or languid, and farther promote the Digestion of the Ulcer; Which is seated upon or near the Joyms, where the Ligaments and Tendinous Parts are concern'd, as was observed in our discoursing of Wounds of the same Parts, the Basilicon how excellent a Digestive so ever in sleshy ones, must be here changed for the Ungs. e Gum

Elemni, with the Terebinthinate Balfam.

From Ukers, equally with Wounds, there flows naturally first of all under their crude and indigested State, a thin Humour or bloodyish Serum, called of some Ichor, of others Sanies; [tho' Blankard by this last will have meant a thick and bloody Pus] which as, we have already observ'd, is by the Surgeons commonly call'd Gleet, being shed forth the broken Capillaries about the fides and bottom of the Ulcer, and continues during the faid State: So foon now as this Humour, by the gentle heat of the Part, and the affiftance of your Application, is farther concocted and turned into Pus or Matter, the Notes of which being good and laudable, we have already lay'd down in the foregoing Section, the Ulcer is then faid to be Digested being the first Step to healing, and without which you must in vain expect a Cure; after this we come to Mundifie or Cleanse, which by the Artist is named Deterging.

The Remedies for this Purpose are of several Sorts, Detersives, among the Simples, are reckon'd the Rad. April Aristoloch. The Fol. Distamn. Chelydonij. Hyslop. Marrubij, Centauri, with the Farina Fabar, & Lupin. Medicines ready Compounded, are the Mundif, ex Apio. Ungt. Apostol. fuscum wurtzij, Ægyptiacum. But

whoever

whoever rightly understands the use of the forefaid Pracipitate, either alone strowd on or mix'd with the Digestive, will scarce need other Detergent. which kind of Medicament must be always proportion'd in strength to that of the Habit, Age, Sex, Situation and fordid Condition of the Ulcer: For as the tender and weakly Conflitutions require the mildest, such as the foresaid Pracipitate in small quantiry mix'd with Basilicon or Liniment. Arcai, as the Part Ulcerated requires: So in strong rustic Bodies. you may use that Powder by it felf, or in larger quantity mix'd up with your Ointment, if not with the other more sharp Deterfives enumerated just before: To the Use of all which, the State of the Ulcer, and the Sense of the Part, or your Patients complaint, will best direct you; and this is the Second Step to the healing of Ulcers in general.

The Third, in a regular Progression, is Incarnation, and without this orderly way taken, there can be no fuch thing as obtaining the end you aim at; for he that goes about to Incarn before he Mundifies, or Detergeth either before he Digefts, is like the Builder who pretends to raife a Superstructure without a Foundation, or to lay such Foundation at the House Top; and this end is obtained by the ingendering good Flesh, to repair the Substance loft, being more particularly Natures Work, which the is commonly forward enough to perform, if all obstacles thereto are remov'd by Art directing fuch Remedies before recited, as may not only cleanfe away the filth or rubbish that wilmed lyes in her way, with their kindly deterfive Qualiry, without biting, but also by their moderate warmth and Deficcation, conferring the native Heat, with the proper Tone of the Part, making way for a commodious influx of the Nutritive Juice. which by the light aftringency of the fame, lav'd STADILLE thus

thus down by the Pores, are converted into new.

In the Class of Simples of this kind, are number'd Sarcotics the Millefol. Sigellum Salomonis. Equisetum, Planrago, Centinodium, Alchymilla, Sanicula, with many other Vulneraries, so termed from their fanative property, and their gentle aftriction, by which they are fitted to dry up the superfluous humidity. of the Parts. Many of the Gums, among which the Refina communis. Thus. Myrrha, Sarcocolla, Alves, Olibanum. Elemni. Terebinth, Pix. with others; in the same rank are reckoned also by some the Farina Hord. Foenugn. Lupin, the Powders of which being mix'd up with Terebinth, or fometimes with Mel Rosar, also with the common Basilicon and Liniment, are made hereby, more or less Desiccating, as the condition of the Ulcer, moist or dry, or the Patients Habit shall require, which was observed in the two foregoing Indications. By way of farther distinction in this particular, you will infer your Sarcotic is too weak, or not fufficiently drying. if much Quittour flow from the Uker, the Flesh continuing spongy; on the other Hand, if the Edges of the same are over dry, and the Fleih rather wasts than shoots up, it is an argument that the same has been too biting and Stiptic: But when your Incarnation arising, appears fresh, red, and withal firm, the discharge daily lessening, the aspect every way promising, and your Patient easy, it is an argument that your Medicine is well temper'd according to Semertus, and indeed to right Reason.

Out of several forms of Sarcotics, which I have at sometimes used my self upon extraordinary Occasions; I shall single out the following, recommended by the best Writers in Surgery; the first from Wiseman.

Ry. Myrri

R. Myrr. Aloes pulv. a 3ss. Thuris, 3j Mastich. Gum Elemni a 3iij. Tereb. ven. 3iv. Ol. Hyper. q. s. ut f. ungtum. vel R. Thuris Mastich. Sarcocol, a 3i. Ol. Hyperic. 3ij. Cera alba, q. s. ad Unguenti Consistentiam.

To these may be farther added, the Pulv. Aristoloch. Ireos, or the Species incorporated with Mel Rosar, and used as a Liniment upon your

Dollils or Pledgits.

The Tellow Basilicon, or the Liniment of Arcaus, with more or less of the Pracipitate has very often with me, answer'd the three intentions of Digestion, Detersion and Incarnation: The Basilicon of Dr. Read for the same End, which is much preserable to the old Composition of the Shops; under that Name is this following.

R. Ceræ Citrin, & Refinæ claræ ā zvi, Pic. Naval. Ziv. Gum Elemni zij, Ol. Oliv. zv. Vernic, claræ ziv. Sevi Ovil. zij. Tereb. Ven. zijs. pulv. Myrr. ac Oliban. ā zi. liquescant, s. a. ut exinde f. Unguenum.

When you have thus fill'd up the Sore with firm or found Flesh, you have then gained the third Step in the Cure of Ulcers; and there remains no more but to dry up the Superficies into a Cicatrix; and here I think Art may be said to take place of Nature, who is not hinder'd at this time, and stop'd in her Work, would overact her Part, and produce a Sarcoma; to prevent which, 'tis the Surgeons Office to overlook her, and when he sees it necessary, to oblige her to cease, by sprinkling some more desiceative Powder upon this new rais'd Flesh, or a Pledgit arm'd with some proper Epulotic, proportion'd still as before, to the condition of

Sect, VI. Of Ulcers in general.

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of the Ulcer more Moist or Dry, and the strength of Temperament,

The Simples for this Use are the Cort. Granat. flor. Balaust. fol. Ros. rub. Rad. Tormentil. Bistors. Among Earths and Minerals, Bolus verus, Lapis Calamin. Tutia, Cerus, Lithargirum, stronger yet are the Alumen, Vitriolum, Cala viva, which are sometimes wanted, when the Flesh is too Moist and Luxuriant.

The Compounds for this Intention are the Unga Epulotica Diapomph. Defic. rubrum de Calce, de Tutia. Album. and without vanity I can say, beyond them all, my Ceratum de Lapide Caliminari, which I have for a general benefit publish'd in my Treatise de Morbis Cutaneis, at the close of the Tenth Chapter, concerning burns of the Skin. To these are added a Solution of the Calx in fair Water, likewise of the Alum and Vitriol in rustic Bodies, and Dysepulotic Ulcers; not forgetting among the generality of them, that excellent Epulotic, a simple Pledgit of dry Line.

And thus having arriv'd at the last Step, and sinish'd the Cure of Ulcers in general, I intend for your farther Information or Instruction, to revise them separately, at least the more Material, and in speaking thereto, shall lay down such farther brief Directions, as may be of Service to you in the Management of each, as they happen to be complicate with their several Accidents; but first a Word or two of the simple Ulcer.

An Ulcer however Simple or unaccompany d with Intemperies, loss of Substance, or other Attendant, does yet require, like the contus d Wound, to be Digested; Otherwise a slight rankling or festering as they are called, in an ill habit of Body, has occasion d many times the most formidable Symptoms, and a slight raze of the Skin neglected, has often introduced an annual Ulcer, attending the unwary

Patient,

Patient, perhaps to his Lifes End: Which should caution every one how he trusts to the goodness of his Flesh, his Urine, Loaf Sugar, and that common, but pernicious Application, the Gold Beaters Skin, from which particularly I have seen bad Consequences, and rather in these trivial Hurts, to hasten Digestion by a Pledgit of Basilicon or Linim. Arcai, after which some gentle Epulotic beforemention'd, will more securely heal up the breach; but whoever will experiment my foresaid Cerate, will seldom find Occasion from first to last, to Use other Remedies in their Cutaneous or Skin deep Maladies.

Of Particular Ulcers.

Among the Symptoms attending particular Ulcers, we shall begin with Pain, as the mest common, and creating trouble in the healing till the same is removed: Of which there are sundry Causes, as the Fluxion of Humours, the bot and dry Intemperies of the Part, the exquisite Sense of the same, the ill position of the Member, the Irregularity of the Patient, and too often the Ignorance of the Surgeon in not rightly managing the Bandage, or proportioning the strength and heat of his Medicines to the diseased Part.

The Fluxion is best prevented by bleeding and lenient Purgation, whilst the hot and dry Distemperative Ulcers ture, [the most troublesome of the rest] is corwith Pain rected by some Anodyne resrigerating Topics, such on from a are the Decoctions or Juices of the Fol. Acetos. bot Intem-Endivia. Cichor. Lactuca. Porsulaca. Nymphae. Hyperies.

osciami. Sedi. Solani. of which Cataplasms may be prepar'd by thickening with the Mica Panis. Album. Ovi. adding the Unguent. Populn. Nutritum Pomat. vel Alb. Camph. Embrocations also with the same.

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or the Olea Rofar. Viol. Sambuc. Hyofciami. Papav. all. Compresses, also dipt in Oxycrate cum Alb. Over. then exprest and roll'd moderately on above the Part as Intercipients: But these must be renew'd often; Defensatives of Diapalma, Bolus verus. Ol. Ros. & Acetum may be apply'd after like Manner, to answer the same Intention.

In respect to the Sense of the Part hurt, as suppofing those which are Nervous and Tendinous, let the same be carefully defended from the cold Air, as we observ'd in Wounds where these Parts lav bare, covering them with a warm Stuph exprest from a proper Fotus, whilft the Applications are compos'd of fuch Medicaments as we directed in our Account of Wounds of the faid sensible nervous Parts. As far also as the Accident is owing to the disorderly position of the ulcerated Limb, let the fame be carefully placed fo as to lye upon the level with the Trunk of the Body, by no means depending or perpendicular, which will encourage the Fluxion, and ftir up more Pain: Thus admit the Uker affect the Leg, it is to be kept upon a Chair, or Stool, with a Pillow under, or, which may be sometimes necessary, upon, if not within the Bed, or lying on a Couch. The Arm is to be pin'd up in a Napkin, as was directed for the Wounds thereof: And if the Patient be irregular in any of the Nonnaturals, no wonder this Symptom should intervene with the Fluxion of Humours. Wherefore that I may not multiply Words in this particular, let the Regimen be taken from what we have already laid down for Persons wounded, whether as to the Air. Exercise, Sleep, Meat and Drink, natural Evacuations, and Passions of the Mind, which have all their Influence one way or other upon Ulcerated as well as wounded Patients, always observing in the dry Habits with a hot Intemperies, that his Diet be ra-Wol. II. ther

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ther humecting or moistening, and refrigerating or

cooling.

It remains that we speak a Word or two of the Surgeon and his way of rolling, with his applications to the Ulcer. Let the former, prepar'd of soft Cloth, as we directed for the Wound, be so turned and managed as to lye easy on the grieved Place, neither so strait as to encrease the Pain, nor yet so loose as to hazard the Dressings coming of, but such as may securely retain them, beginning moderately strait from below upwards, and slackning rather upon the Sore, if so tender as not to suffer the like Compression thereon, again straitning as you began when past the same, by which to repel gently or drive back the Humours.

The last occasion of Pain we observed, was that which might be owing to the too great heat and sharp-ness of the Medicine, discover'd by the Patients long continued complaint after, of burning, smart and great throbing therein, by the angry aspect of the Ulcer at the next opening, withindigestion, Gleet or ill condition'd. Matter flowing in the room of a well concocted Pus.

When the Case is thus, you are to consider if you have not too early began to Deterge or Cicatrise, before you are well Digestive, for that is the ready way to procure this disturbance in the Part, and complaints from your Patient; or if you find that either your Digestive or Mundiscative be too hot, sharp or Pungent, let the same be changed for one more mild and gentle, leaving of what ever is like to instame or aggravate the Malady, and dressing up with Lenients, still observing, as we have hinted before, that you have due regard to the Age and Sex, as well as Temper and way of Living.

We now shall observe the Intemperies cold and moist, and which accompanies other particular Ulcers, which are most commonly met with in the Corpulent

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and Phlegmatic Constitutions, or in those disposed to Hydropic Diffempers, attended with less Pain, as of a duller Sense, with a wan or pale Complexion, fometimes pitting round about, and abounding with crude Serosity, instead of a rightly temper'd Matter; which must be treated in a quite different Method from the former, not only applying fome Decoction of the hot Plants, as the Herba Abfinth. Centaur. Hyperic, flor. Chamomel, fol. Laur. Rorifmar. or the like, with an Elixivium or Wood Ashes boiled in the same, as a Fomentation used with hot Flannels exprest, but also stronger Remedies to the Ulcer it felf, as the Balfam and sometimes the Ol. Teberinth, with the Digestive, the Precipit. rub. also not only here, but especially with the Deterfives, the Sarcotics and Epulotics must likewise at these Times be of the stronger fort, whilst contrary to the former, the Diet is to confift of what is exiccating and attenuating, fuch as we have formerly directed in the Oedema and Anafarca: And laftly, the bandage must be carried with a stricter Hand, whereby to repress the Influx, and strengthen the relaxed Fibres.

We need not I think detain you, by reciting the hot and moift, or cold and dry Distemperatures, talk'd of by some, which are provided for by that general Maxim, Contraria Contrariis: So that having dispatch'd the Pain, Fluxion, and Intemperies, we shall come to those other Accidents with which they are complicate, and distinguish'd more remarkably in their Appellations: And first among these, of the putrid Ulcer, after I have given you one Example of an Affect of this Kind, with a bot and dry Intemperies, and excessive Pain attending.

butic Habit, often subject to an Erysipelas upon one or other Parts of her Body, was by way of prevention

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tion, instead of correcting the bilious or hot and acrid Salts in her Blood, advised to have a Fontanel in her Arm, which by some pretender to Surgery, was made too much inwards on the Body of the Biceps, rather than in the Interstice, between that and the Deltoides as it ought. Whence immediately ensued great Fluxion with Inflammation, the Ulcer being so excessive painful, that after sew Days, they were glad to throw out the Pea, and endeavour to heal it up again: But proceeding irregularly in attempting to Cicatrise, before Digestion, and falling still into ill Hands, the Arm swell'd up, and the Ulcer continuing only Gleeting, with extream Pain, the poor Woman could get no rest either Night or Day.

When she had passed thus through several Hands, for many Weeks, and apprehending Danger from her Arm, which some told her must be cut off, she came to me, who viewing the Limb, perceived a Sordes on the bottom of a large Uker, which from the compass of the Issue at first made, was now spread to the Circumference of a Crown Piece, with several other serpiginous Ulcerations round about; in some of which the Flesh appear'd as it were Worm-eaten, with the Edges hard and painful, to that degree, that she could not suffer even the finest or softest Rag, much less an armed Probe, to be

lay'd on, in order to cleanse the same.

I told her plainly I could do her no Service, without internal Medicine, that might correct the ill State of her Blood, of which I found she had no Notion, unless by the way of Purging, which she said she had taken twenty Times, and was always worse after them; and truly there was less likelyhood it should be otherwise, since by what I could gather, they were generally such, as by their hear d

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and acrimony, excited fresh Disturbance in the Humours of her Blood, instead of carrying off or lessening the Matter therein offending, supplying a ferment rather to the Disease.

I began her Cure by Bleeding, to derive some part thereof an other way, and thereby to empty the same; also to fan as it were the remaining Mass, and cool her whole habit of Body: Furthermore, once in 4 or 5 Days, I prescribed Calomel. in small quantity, as to 3/s. or gr. xij. purging of next Morning with a gentle Infusion of the Rheubarb, Sena. cum sale Tart. as you will find it prescribed in the Eryfipelas; the Days between the Season favouring fhe drank the Antiscorbutic Juices of the milder fort, fuch as were exprest from the Fol. Taraxac. Fumar. Cichor. Becabung. which did much temper and allay the bilious Efferveicence and heat of the Blood: Yet still I perceiv'd I had not gain'd the Ground that might have been expected for the Time, nor could I for three Weeks, contrive any Remedy she could bear to lye on the usual time of Dreffing, without very great uneafiness, and as great complaining: The Precipitate, either by it felf lightly strow'd, or mix'd with the Digestive, which usually avails beyond all others, doing nothing here, the Uker lying still crude, with its Sordes sticking faft, notwithstanding all endeavours: So that sufpecting some secret taint or latent Venom of an other fort, I had thoughts of raising a gentle Ptyalism to subdue the same, before which I earnestly prest for a Confultation, but the same would not be granted, and indeed the very Name of Spitting frighten'd her away from me for a few Days; after which she return'd of her own accord, telling me she was tir'd of her Life, and would submit to any thing that might but procure a little Ease; upon which I immediately order'd her gr. viij. of Turpeth.

Turpeth Min. which worked a little roughly upwards as I intended, for 6 or 7 times: In the Evening of the same Day she took a Paregorick, and lay all Night in her Bed, which she had not done for a great many before: At the same time I again strow'd the Ulcer with Precipitate, persuading her to let the same lye on for two Days, over which I laid my Digestive thin spread with Basilicon, and a third of Liniment: The other Ulcers were drest with Ungt. Tutia. adding a little Merc. dulcis, with a view of checking their Erosion; and over all my Ceratum.

At the time appointed, I took of my Pledgit from the large Ulcer, and as I observed before the Gleet to be much lessen'd, I now found the Sordes begining to seperate, some of which came off with the Digestion upon the Pledgit, so that dressing again as before, and continuing it for the same time [a Hint I had taken long before from Mr. Wiseman] at the next opening, the remaining came away in a thick Slough, leaving the Ulcer well mundify'd or cleansed, yet withal still so very painful, that we were forced to correct the very Air, at the times of Dressing, with a Pan of live Coals, it being several Hours before she could sit, stand or lye still, afterwards.

The fourth Day from the first Dose, she repeated the Turpeth. which at the first, strain'd her much in Vomiting, but with that Relief to her Arm, as made her sufficient amends: For the Ulcer kept clean, and grew less tender, the Bottom beginning to incarn upon the Membrane, lying bare or in view, the Lips or Edges softer, and the Serpigines better condition'd, skinning over in some places from this Dressing. If we had not continued getting ground I intended to have proceeded at least to have made her Chaps fore with the Turpeth. Min. which I gave her at like distance from the second Dose, a third

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third Time, keeping her all this while to a Sarfa Diet Drink; by which the Disease was so Conquer'd, that having Incarned, we were in hopes soon after to Cicatrise the same, the little ones which appear'd Worm-eaten, being in a manner heal'd up smooth: But still I perceived the large Ulcer so truly disepulotic, or difficult to skin over firmly, with out cracking, that I much repented I had not taken the opportunity of pursuing her Spitting when her Gums began to swell; in the place whereof I kept her to an Alterative Electuary, with the Ethiops Mineral, prescrib'd as follows, with a Draught of her Diet Drink upon the same,

R. Cons. fr. Cynosb. Zj. æthiop. Min. s. i, Zs. Chel, Cauc., simpl. to. Zij. syr. Dialth. q. s. m. f. Elect. de quo sumat Morsulum ad Magnitud. N. M. Maj. Mane Ovesperi superbibendo Ziv. Jufus segtis. cujus bibat per se eandem dosin 4a pom.

R. Rad. sarsaparil Ras. Lign. Sassaf. rad. liquirit. fem. Coriande. a 3ss. rad. Lapath. acut. incis. 3ij. infunde frigide per triduum in aq. Calcis thiv. ad usum supra ordinatum.

Till at length perceiving she grew Hellical, upon finishing her Cure, I put her upon a Milk Diet, with the Decolt sarsap. Edulcorans, as directed by Fuller in his Pharm. Extemp. drank also with Milk, which recover'd her to Admiration.

A most toilsome vexatious Work, sufficient I think to caution young Men, how they cut Issues, in some thin, hot and dry Habits, without advise: For the these Accidents took their rise, and the Ulcer grew so very painful first of all, by the unartful Section of the Skin, upon the Body of the Muscle: Yet had it been made [as I have known others B 4 which

which have prov'd exceeding painful, and troublefome to get whole again upon a proper Place in the same Subject, it is questionable if it could have been continued, as may be infer'd from the other Corrofive, Malign, and Cancrous like Exulcerations round about : For fubduing which, all the mildest Digestives and Deterfives with lenients, as the Basilicon with the Pracip. the Unquent. Tutia, Diapomph; even my Cerate it felf, the best contriv'd Remedy, one of them in the Universe, and which has rarely fail'd me, prov'd ineffectual, till a powerful shock was given, or a strong Revulsion made by the Emetic, or Mercurial Vomit. A light scratch upon her Hand, I'tis strange that thence she should admit a cut upon her Arm having foyl'd, she told me, fifteen Years before, a noted Practitioner, fince dead. So exquifitely tender was this Ulcer, that for two Months time, the would not fuffer even the gentlest turn of a Roller, her Shift and Gown Sleve being born up by a Contrivance, Hoop Fashion, of her own Invention. She was naturally a peevish Woman, always upon the Fret, and indeed I found her the greatest tryal to my Patience I ever met with: But having I think, unadvifedly engag'd, I am fure inadvertently, and after long Fatigue, as I hoped, got the better of fo stubborn a Disease, I was willing if possible to compleat the Undertaking.

Of a Putrid Ulcer.

Ulcers, with a cold Intempe-

of putrid We have already taken Notice, that during Indigestion, as well from Wounds as Ulcers, there flows a ferous or watery Humour, by Practitioners called Ichor, but in this particular one, by reason of the Putrifaction attending, there is farther engender'd, as well at the Sides, as the Bottom, a more thick and vicid

vicid one, named Sordes; Wherein through the ill temper of the Blood, and the degeneracy of the Nutritive Juice, or by reason of some cold and greafy Application, the same still disposing thereunto, the Flesh is as it were tainted or corrupted, and turn'd into a fort of Putrilage, or cadaverous Rottenness, which appears by its insensibility, its pale and fometimes livid Complection, with a fort of Pappines, inflead of the former Callosity about the Edges, and rotten Sloughs at the bottom; which Description may serve for the Signs Diagnostic.

And as for the Prognostic, we cannot say that these Ulcers are ever absolutely free from Danger, by reason of the infirm Heat round about, and fometimes its Extinction that renders them. tho' less painful, yet more liable to Gangrene and Mortification, which in Corpulent Bodies, and efpecially Hydropical, they are exceeding Prone to, unless great Diligence is used to prevent them. In the Cure therefore of this Ulcer, you are to prescribe first of all, an exact Regimen of Diet more particularly, without which and your other Internals to strengthen the native Heat of the Parts, and invigorate the same, your Topics will but seldom answer.

His Food in general must be prepar'd of Meats eafily Digested, rather Roast than Boil'd, the like drying and attenuating Aliments being here requir'd, as were directed also for the Oedema and Anafarca; it being fuch Habits usually, or the like abounding with Cacochymy, or ill Humours in their Blood, that are most liable to those putrid Ulcers Alfo where the Heat is weak, by an over Corpulency, or much Fat, contracted by Luxury, Sloth or Idleness, too much indulging Sleep, and using no fort of Exercise. Or where such Heat is weakned and overcome by the drinking of spirituous Liquors. Lastly, when the nutritious Juices are four'd, or

other-

Ointment

otherwise vitiated, tainted or corrupted by some Chronic Sickness, as the Gout, Scurvy, Pox, Dropsy, &c. without mending which habits of Body, by subduing the Cachexy with proper Specific Alteratives, it will be difficult, as I observed but now, to gain upon these Ukers, either by laying a good Foundation for their healing, or inducing a lasting

Cicatrix thereupon, after they are incarned.

Whilst then you are correcting the distemper'd Blood and its Dyscrafy, either by purging or altering as the same shall indicate, let the Ulcer according to the Degree of its Putrifaction or Sensation. be dreft up with the milder or stronger Digestive or Deterfive Remedy. If but beginning to grow Putrid, having lightly strow'd your Pracip. rub. upon the Sloughs, or rotten Flesh at the Bottom, and round the Sides, you may lay on a thick Pledgit, or according to the Depth, foft Dossils of Lint dipt in the warm Liniment of Arcaus, melted down with about a third part of the Balfam. Tereb. which is much preferable at these times to the Basilicon, which by it felf is too unctuous for these slabby and rotten Ukers; or mixing equal parts of the faid Liniment with Bafilicon, in which 3ij. of the Pracip. rub. have been incorporated with 31. of both fo mix'd: herewith your Pledgits or Dossils being first arm'd, and lightly moisten'd in some of the warm Balfam aforesaid, may be lay'd upon the Uker, with a Plaister and Compress thereon, and a Bandage, tho' not so straight as to intercept the passage of the Blood, yet so as to bear gently upon all parts of the Ulcer, and keep of the Fluction.

The Ungt. Apostolorum is used by some at these times, but I think the Precipitate with your common Digestive as here directed, exceeds all others; which when the Sloughs are thick and deep, adhering close, is to be strow'd on by it self, your mix'd

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Ointment upon your Dossils over it, and thus suffer'd to lye for 48 Hours, or 2 Days and Nights. you will find it more effectual in digesting of the Sordes, than if daily shifted. At the times of dressing these moist or putrid Ulcers, you must take care you are never wanting of a warm Discutient Fomentation, like what we have at the beginning directed for the Phlegmon, tending to a Sphacelus; With which the Ulcer must be diligently stupped with hot Flannel for half an Hour. And if by fuch means the Sordes loofens, and the Putrifaction is check'd, you are to proceed till your Ulcer is well Mundify'd, and that the Flesh underneath regains its natural Colour: When leaving off your Precip. thus strow'd by its felf, and mixing it still more sparingly with your Sarcotick Unquent, you may Incarn, as in other Ulcers with a moist Intemperies, we have already directed. But if notwithstanding your former Applications, the putrid Illuvies still encreaseth, and the Surdes thickens in the Ulcer, you must add to your Digestive, the Ol. Terebinth it self, or the Tincture of Myrrh and Alves, more or less, as the sense of the Part will allow, and the degree of Rottenness shall require; which proving still insufficient to stop the Progress, it will behoove you to Scarify, or cut into the Flesh allround, so deep as to fetch Blood, carefully avoiding the Tendons and Blood Vessels, and to fill up your Scarifications, together with the rest of the Ulcer, with Dossils dip'd in the scalding hot Mixture aforesaid: Then laying on a Pledgit suited to the compass of the Ulcer, arm'd with the Unge, Ægyptiacum, which is an admirable good Medicine in these Cases, and proceeding, as in the Phlegmon tending to a Gangrene, we have advised. These failing, and the Part Mortifying, Amputation as in those desperate Cases, is the last Remedy, if the fame

same is practicable. But if by the more powerful, whether Digestive or Deterfive, you may have put a stop to the Progress, the rotten Sloughs now feparating, and the Flesh of its natural Colour. beginning to appear undearneath; your Precipitate either by it felf, or mix'd with the Basilicon and Liniment, as the same shall require to be Mundify'd or Deterged, spread upon the Dossils or Pledgits. and dip'd in the warm Balfam. Terebinth. may probably compass your design; at least you must obferve this for a standing Rule, that as the Ulcer becomes cleaner and more fenfible, you must gradually lay afide your stronger Detergents, and proportion their strength to the Condition of the same. I mean of the Ulcer; for by pursuing the stronger. Medicines, when the Sore is clean, and the putrid Flesh removed, you will only inflame and aggravate the Disease.

The Uker being Deterged, there is now room for your Sarcoticks, which are here also required to be of the dryer fort, as the Pulv. Myrr. Aloes. Sarcocol. mix'd along with your milder Digestive, or with more or less of the Precipitate, as you shall find occasion.

Your Incarnation also being thus compleated, there remains now only a Cicatrix to be thereon induced, which is to be brought about by Epulotics of the more desiccative kind, as we have before recommended for Ulcers abounding with great Humidity.

As our last History by way of Example was taken from an Ulcer, the consequence of an Isue made unadvisedly, and injudiciously in a hot and dry Habit, so the following will shew you the ill Effects of an other, in a Phlegmatic or cold and moist one; both which should caution you how you attempt the cutting of an Isue in some habits of Body, even

in the Arm, without good Advice and Deliberation. but more especially in the Legs of Women, who are very Corpulent, and inclining to be Hydropical.

One of a full Habit, Cold and Phlegmatic, not Hist. 70. only abounding with piteutous Humours in general. but Oedematous about her Feet, and Ankles at all times, and towards Evening especially, subject to fwell'd Legs, taking rife from her frequent fipping of diffull'd Waters That abominable Cuftom now more than ever reigning among us by which the native Heat being weaken'd, and the Fibers rendred overlax, through the redundancy of ferous Humours; about the time of her Menstrual Purgation leaving her, which for some Years as is customary with some Cachectic, bloated Habits, had been irregular complaining more than ordinarily of pains in her Limbs, was imprudently perswaded by her Midwife, to have an Iffue in her Leg; which for the lucre of a Shilling, was unadvifedly perform'd: For the made fuitably enough in regard of its Situation, yet the habit of her Body being so wretchedly vitiated, the forcing of a Pea into the new made Wound, and binding down the same, immediately brought on fuch a Flux of a sharp Ichor, and fo inlarged the intended boundaries thereof, that instead of One, it was capable of admitting half a Dozen large Peas, the Flesh about instantly Corrupting and growing still more Rotten: Upon which, finding there was no likelyhood of reducing at to the purpose intended, a Surgeon was call'd in, if possible to repair the Breach, who prudently threw out the Peas, and endeavour'd to Digest the Ulcer, by the way, I think this might be fo call'd a Day or two after it had been a Wound yet in vain; fo that after about three Weeks, I was confulted; and discover'd, I can't so properly say a MorMortification, as a rotten putrid Ulcer, the compais of a Palm, with a Gangrenous Disposition round about, from whose several Vesications, together with the Gleet from the Ulcer it self, the Bolster and Bandage came of wet, as if soak'd in a Bloody

Water all Night. It was said the suilbroadayt of

Taking of the Dressings, to prevent the impending Danger, I immediately cut through the rotten Flesh, more than an Inch deep all round, in several places, till the Blood appear'd. Had not the Limb been naturally very large, and now much encreased by the Tum efaction, I should have been cautious of going fo deep with my Knife upon a part where the Crural Artery makes its descent; but having done this, I order'd a strong Lixiviate Fomentation the Surgeon had got ready, to be made boyling hot. to a Quart of which I poured four Ounces of the camphorated Spirits, fetting them at Work to express the Stuphs and apply all round the Limb, repeating them as they grew cold for half an Hour! In the mean time a Panniken being brought, I directed an Ounce of Liniment Arcai. to be melted down with two Drams of the Ol. Terebinth, and as much of the Tinet. Myrrha, made scalding hot; in which dipping an armed Probe, I foundly bathed all parts of the Ulcer, with a large one or two spread over with the Ægyptiac. on the outside, and a Cataplasm of Theriac. Lond. on Cloth, apply'd as hot as she could fuffer it, all round the Gartering Place below the Knee, of a Hands breadth, covering the Vesications, and rolling on the same, I order'd her to keep in Bed; and that she should take a Morsel of the Conf. Mithridat. with a Glass of generous Wine, instead of her Dram I perceived she much coveted, to warm her Blood, and keep of the languor of her Spirits. region to depresent their should

The next Day I found the Gleet much lessen'd, and listing out the Dossils with the Forceps, the Edges of the Ulcer a little instand, as if tending to Digest, at least the Putrisaction at a stand: when taking up the rotten Flesh with the same Instrument, I clip'd of large pieces thereof, lying loose at the Bottom, and round the Sides, for the better Operation of my Medicine underneath: I then again caused the Ulcer to be Fomented as before, and drest up likewise after the same manner, of which I found her much more sensible then she was then.

On the third Day, the Edges of the Ulcer gave us still much greater Encouragement, appearing with Matter, and the sharp Ichor less in quantity, the Tumour gently subsiding, and by turning the putrid Sloughs about, which were more loosen'd, with my Probe, I could see in some places, the Flesh to appear ruddy underneath: I now clip'd away more of them, afterwards Fomented, and by reason of her complaining of the smart from her Dressings, I soften'd the same, by adding a little more of the Liniment. but continued to strow on the Precipitate, and dress up otherwise as before.

The Day following, I found her much heartyer, with less Stupor on the Leg, and a stronger Pulse: She continued her Mithridate with a sup or two of mull'd Wine, under the Effect of which, warming her Blood, she felt her self much comforted, by a gentle Diaphoresis thereby promoted as she lay in Bed. Upon opening the Ulcer, the Gleet was still further diminish'd, and better Digestion; the Sloughs now separating all round, as well on the Edges, as at the Bottom, several of which came of with the Dressings; the Flesh altho' slaby lying in sight: Upon which, after I had Fomented, I strow'd the same thick with Precipitate, laying soft Dossils dip'd

in the melted Mixture, tho not so hot as before, thereon; and instead of the Theriaca, which there was now less occasion for, a large pad of Tow, arm'd with Liniment on the Outside, covering the Parts which had been vesicated, as well as the whole User therewith, making up with a gentle Compressand suitable Bandage, somewhat straighter than at first, intending this Dressing should be on two Days, in expectation of the better Detersion from the Precipitate, which in shorter time in some

of these Cases does not so well answer.

Accordingly at the time appointed I met the Surgeon, and we took of the Dressings, when the whole remaining Putrifaction came of together therewith in a large thick Slough, leaving the Ulcer Mundify'd; however, the Flesh not yet so firm, but that more of the Powder was necessary to be strow'd thereon, with the other Dressings, as at the last opening; which being soon after corrected, and wanting only Incarning, I took my leave, the Surgeon finishing what remained with the Liniment and Precipitate, till the loss of Substance was repair'd, when he cicatrized with dry Lint, and a slight touch of the Vitriol Stone.

For the farther dispatch of her Cure, and mending her habit of Body, at my last Visit, I recommended a drying Diet of the Decost. Guajac. dry Bread or Manchet, with a few Reasons for her Breakfast and Supper, with her Meat down roafted, prepar'd of Flesh easily digested for her Dinner, with a Glass of Wine; forbiding at the peril of her Life, any more of her strong Waters: I farther order'd her as she grew well, a full Dose of the Tinctura Sacra, twice a Week, for a Month; by which she recover'd a better State than she had enjoy'd for twelve Months past, till falling into an immoderate Flux of her Menser,

her Legs began to swell again; upon which she consulted me, who finding her thus slooding, and in great Danger, the same having continued for some Weeks past. I immediately order d for Revulsion sake, at least by deriving a contrary way, that 4 or 5 Ounces of Blood should be presently taken from her Arm, after which the following Electuary and Tincture, by which the Flux was presently moderated, and quickly after supprest.

R. Pulv. Cort. Peru. opt. Zi. Ter. Japon. Croci Mart. reft. ā Zij. Syr. de Meconio q. s.m. f. Elect. de quo capiat quant. N. Mosc. vja. quaque hora duranti Sanguinis profluvio. O sistenti suxu, Continuetur Ejus usus Mane tantum ac Vesperi per 7^{m.} post singulas Doses superbibendo Cochl. v. val vj. Tinctura Sequis.

R. Fol. Rosar. rub. in umbra optime Siccat. 35s. Affunde aq. F. servefactæ 3xij. Vini rubri austeri itidem calefacti 3iv. Spir. Vitriol. gut. xij. stent simul ad plenam Tincturæ extractionem. cui perfecte depuratæ ad de Sacchar. cant. alb. 35s. m.

In regard to her swell'd Legs, I would have recommended the strait Stockings, but by reason of an Asthma that attended, I thought it by no means fafe to suppress the Humours in these Parts, for fear of returning them upon her Breaft, which was likely to be of worse Consequence; so that directing only a drying Diet, I chose rather to let them take their natural tendency to these depending Parts, than that the Lungs should be thereby farther obstructed: Neither durst I repeat the Tinctura facra, or other stimulating Cathartic for evacuating the Serous Illuvies, nor yet the Bitters for corroborating and mending the Cachettic Condition of her Blood, for fear of exciting the uterine Hamorrbage afresh; so that I directed only an Infusion of VOL. II. the

the Rad. Rhei. to be taken once in 3 or 4 Days, as her strength would permit, with a Morsel of the following Electuary twice a Day, on the Days intervening, drinking her Guajac. Decoction upon the fame; by which and the profecution of her drying Diet, the again got the better of her Disease, and remains yet free from the fame.

R. Conf. rofar. rub. Abfinth. rom. a 3i. Coral. rub. pp. Croci Mart. reft. a 3ij Syr. Capil. ven. q. f. M. f. Elect.

R. Cort. Lign. Guajac. scobis Ejusdem. a 3ss. Rasur.

Sassafr. rad. liquir. raspat. a 3ij.

Infunde prius Supra Cineres calidos per xij. boras in aq. F. q. J. dein Cogir. ad tbji. Sub finem addendo sem. Coriandr. 3ij. passul. Maj. exacinat. no. X. & Coletur pro Aposemate ad usum ut supra.

Of the Corrosive Ulcer.

Of corro-

The next we shall observe, is the Corrofive or five Ulcers. eating Uker, of which there are diverse forts, of as many Appellations or Denominations, according to the differing degrees of Virulency in the Humour, and the different parts they prey upon: Thus where the Skin only is affected, it is term'd Serpigo. from Serpo to creep along; but when the Flesh underneath is also concern'd, it is then named Herpes exedens, of which we have given an Account in our Treatise De Morbis Cutaneis. Where the Corrosion is still deeper, it is called Phagadena, Noma, & Ulcus Depascens, being Terms borrow'd from its eating or devouring Faculty, as we have before obferved. And these are they which in general may be named Cacoethic, as then we told you with the reason why so Denominated, i.e. from their evil and perverse Disposition. Dr. Read

Dr Read diffinguisheth the principal of these, viz. Noma and Phagadena, thus, viz. the first having Putrifaction adjoyn'd, but no Tumour; the latter Tumour without Putrifuction. Mr. Wiseman has likewise taken notice of this Distinction, but having already described the Putrid Uker, from what follows in that of the Ukus Corrosivum, proper hints may be gathered by the Surgeon, how to treat the former, I mean the Putrid, when at any

time accompany'd with great Erofion.

In the Cure now of this Corrofive and eating Ulcer, a very great regard, if not the chief, is to be had to the nature of the Humour and degree of its Malignity, as whether the Bile simply offends. or that the same by a farther degeneracy into a fort of As virid. or into what the Antients call'd Atra Bilis, has contracted this Predatory, and as it were Arsenical property: As again it may be necessary to reflect, whether some Malignity, or Poyson from without, being got into the Blood, is not thence critically thrown out to the furface of the Body; as the Carbuncle in the Peft, and the spreading eating Ulcer from the Pox. Lastly. whether or no this particular Dyscrasy in the Juices, fupplying Matter to the Part ulcerated, arise not from some advanced chronical Distemper, as the Scurvy, whether Acido or Sulphureo-Saline, the Lapra, or as before, the Lues Venerea: Without regarding which you will in all probability miss your aim, altho your local Applications are never fo well adapted.

First then if the Bilious Humour abounds or grows outragious, you must purge your Patient between whiles with the Cholagogue Medicine directed for the Erysipelas, and when farther degenerating, those prescribed for the Cancer; injoyning the like Regimen, as to the Normat. Forbidding whatever

C 2

may farther heat or inflame, and ordering all such, whether Food or Alterative Medicine, as may attemper or fosten the bilious and acrid Salts offending, and affording Pabulum or Fuel to the Difease.

Hippocrates enjoyn'd his Patients Bread and Water at these times, but I fear some of ours would think themselves undone, if they had not Flesh and

Wine allow'd them. of the work

Whilst this abstinence is pursued, the Artist must endeavour to check the spreading of the Ulcer. by fome fuitable Application, mixing always with his Digeffive the Precipit rub. or frowing the fame upon the sides or bottom of the Ulcer, which is I think beyond most others serviceable, not only to correct the Putrifaction, but to stop the Erosion or foreading thereof: If the Ulcer fubmits not hereunto, father still encreasing, you must not only repeat your Purgation, but give Calomelanos overnight between whiles, purging it off next Morning with your former Cathartic Medicine; and for correcting the virulency of the Humour, you may prescribe some proper Alterative, as the Æthiop. and Bezoard. Min. likewise the Antim. Diaph. or the Ceruse thereof, which if kept to constantly according to some celebrated Authors, is able to subdue the most inveterate Ulcers, and dispose them for healing. But indeed as to this, I must own that I have given formerly large quantities of these Preparations, without any manner of advantage from their use; whether or no the Disappointment might not partly arise from the vile practise of the Chymists in adulterating the Medicine, I cannot fay.

With these are prescribed a Decoction of the Woods in the nature of a Diet, particularly, the Sarsaparil. China Sassaf. Santal. cur Ras. C. C. & Eboris, and in gross Phlegmatic Habits, the Decoct.

Lign.

Lign. Guajac. when if altogether prove ineffectual. you must vomit your Patient two or three times, at as many Days distance, with the Turpeth. Minerale, by which a more powerful Revulsion will be made than by all other Remedies whatfoever; and the Uker which before perhaps increased under the strongest Digestive or Mundificative Application, shall after give way to one that is more mild and gentle.

There are diverse Applications recommended to us by Authors, and in use among Practitioners, to overcome the Corrofive nature of these rebellious Ukers, and put a stop to their depredation: Those I have used are the Lac Sublimati Corrosivi, and the Aqua Phagadenica; the former a folution of the Corrofive Sublimate in fair Water, or other simple distill'd Water; the latter in aq. Calcis 3i. 3ss. or 3i. more or less to a pint of the Waters, as the Age, Sex and Temper, with the condition of the Ulcer shall direct.

For this use also there are certain Powders form'd into Troches, and from their Founders, borrowing the Names they are known by, as the Troch. Andronii, Polyida, Musa, also the pulv. fine pari Joannis Ardani, whose Descriptions you will meet with in Dr. Read and other Writers of Chirurgery. The Basis of which are some Caustic and Catheretic Powders. as the Vitriolum, Alumen. as viridis and Arfenicum; instead of which the Precipitat. ruber. or the Turpethum Min. illotum, mix'd up with some Deterfive Ointment, as the Apostol. or Ægyptiac. or this latter by it felf, may be I think with more safety prescribed, and made use of with as good advantage: And where the Edges fret or crack, they may be sometimes touched with the Ol. Vitriol. Sulphur. Tart. per Delig. vel Butirum Antimonij, when the Erofion is by those means conquer'd and brought under, the following Ægyptiacum of our Authors, will be found useful in forwarding the Cure, for which cause I have transcrib'd it from his Lectu-Tes.

Re. Fol. Card. b. Centaur. Min. Scordii. a m. s. Malicor. Gal. immat. Aristol. rotund. a 3ss. infunde calide in Aceti fortissimi toj.

R. Aceti hujus Colati toss. aruginis 3v. mel. 3xiv. Cogir. lento igne ad Unguenti Confistentiam.

An other for this purpose, is his Ungte. Peto, which perhaps out of prejudice to the Plant, and its abuse among us, I have not so great Esteem for, as fome others who mightily commend it, and frequently use it, which I have therefore here also inserted.

R. Axung. Porcin. this. Colophon. 3iv. Cera 3iii. Suc. de Peto thj. Peti contus. mij. Coque ad Suc. Confumpt, tum adde Gum Elemni, Vernic, alb. Tereb, ven. a 3j. et Coletur pro Unquento maxime detersivo.

The Unquent: Enulat. cum Merc. Mundificat. ex Apio. & Paracelfi, with the Precipit, or Turpeth, mix'd up as before, are also proper for the same Intention; but not to trouble you with other Formula, we shall make mention of those Ulcers proving Correfive, by reason of a particular Acrimony or Dyscrasy of the Blood, being the product of some radicated Diftemper, as the Leprofy, French Pox, Scurvy: Of the first of these I have discoursed in my Treatise of the Diseases incident to the Skin; of the second in my Siphilys or practical Differtation on the Venereal Disease. It remains besides what we have said of the Scurvy, also in the first of these, that we add a few Words here of the Ulcer thence

thence arising, which is usually discover'd by the Scorbutick black and blew Spots, with other pustulary Eruptions Ulcers. and blotches breaking out in other Parts, as also by a general lassitude of the whole Body, rotten Gums, loose Teeth, Stinking Breath, lixiviate and Sandy Urine, with other the Syndrome attending that popular Diftemper; at which times you are not only to regard the Uker, as its outward aspect shall direct, but also to inspect the indisposition internally of the Juices offending, and to prescribe such proper Alteratives

as may rectify their Diforders.

Thus in the Acid or Cold Scorbutic Habits, the hotter Remedies of this kind are to take place, fuch are the Rad. Raphan. Sylv. Ari. Cort. Winterani. Aurant. Fol. Cochlearia Utriusque generis, Nasturtia aquatica, and the like. In the hot Saline Sulphureous, the more temperate Antiscorbutics must have precedence, of which kind are the Rad. Lapath. acut. as excellent as most others, Rubia Tinet. Acetos. Cichor, Taraxac, Summit. Pini Tamarisc Cort. Rad. Frangul. Fol. Plantag. Fumar. Aparin. Becabung, &c. of all which, Diet Drinks both Alterative and Purgative, may be prepar'd, with the addition of fome fuitable Cathartic, as the Fol. Sena Alexandr. Rad. Jalap. Mechoacan. Or the Mants being bruised, their Juices may be exprest, which together, this way convey their Vertues to the Blood much better than in other Forms, feveral whereof and of each kind, are to be met with in the Works of Dr. Willis, who hath written accurately of this Diftemper, and some of which you will find inferted in our Tract de Morbis Cutaneis, in the third Chapter of the Itch.

But when all others, whether Internal or External, have been experimented ineffectually, the last refuge is usually a Mercurial Salivation.

Of Ulcers with spongy Flesh.

Of Ulcers with Hy-

The Ulcer opposite to the Eating or Corrosive, is perfarcofis that abounding with fungous or spongy Flesh, by the Gracians named Hypersarcosis, an accident as well owing to the Surgeons inadvertency oftentimes, as to the nature of the Ulcer it felf; for when after Digestion, the same Medicaments are still continued, especially that slabby Sarcotic the Ungt. Bafilicon, remarkable above many others for producing this luxuriant Flesh; or if any other is still apply'd after the Uker is already incarn'd, no wonder the Flesh should now super-abound and rife above the level of the Skin, Nature being always ready as we have formerly noted, to carnify the nutritious Juices flowing to the Parts, if she isnot hinder'd by some more powerful deficcating or drying Application.

When the Case so happens, and the Fungus is recent, you may try your Merc. precipit. rub. which we have so often commended, sprinkling thereof upon the spongy Flesh; and if lay'd on somewhat thick, and fuffer'd fo to lye for two Days, you will perceive the fame turn'd into a Slough, which if not coming away of its felf, it may be clip'd of with your Scissars, or raised by the end of your Spathula, that you may frow on more before the Flesh grows up again underneath; and thus Daily. or every other Day, proceeding till the same is reduced, when laying on a Pledgit of dry Lint, or lightly rubbing the Superficies with the Alum or Vitriol Stones, as were directed for the Ulcer with the moist Intemperies, you are to Skin over the same.

For this purpose there are fundry very drying Medicaments recommended, and very proper where the Fungus is mild, and scarce yet got over the brims of the Ulcer, fuch as the Pulv. Gallarum

immat.

immat. Boli weri. Ter. sigil. Croc. Mart. rest. lapid. tutiæ Calaminaris.

Among Vegetables, a strong Decoction of the foresaid Galla, the Rad. Bistort. Tormentil. Fol. Ros. Plantag, Equiset. Centinod. Cortex. Querc. Granat.

flor. Balauft.

In these Decoctions made in the Aq. Fabr. for the more potent Desiccation may be dissolved, a bir of Alum or Vitriol, when Pledgits express herefrom, are lay'd down upon the spongy or luxuriating Flesh: But if the same prove stubborn, and give not way hereto, a Catheretic, or perhaps Caustic Medicine, may be required, such as the powders of Alum or Vitriol Crude, or the former calcin'd, and then mix'd with the Red precipitate, improperly I think now call'd Pulvis Angelicus: Also the Calx Viva is a good Remedy at these times, and still more powerful when made into a Past, with the Lixivium Capitale. The strongest is the Lapis Infernalis, prepar'd as formerly shewn, out of the said Lixivium.

The Corrofive Sublimate, and the feveral Arfenics, I have no Opinion of, and therefore cannot recommend them.

For this purpose also, there are several prepar'd Lints, the Cloth being either dip'd in some of the soresaid Liquors, or Stiptic Decoctions, or in some solution of the Aluminous or Vitriolate Salts; afterwards hung up to dry, and then scrap'd out into Lint; or the Lint it self steep'd therein, and dry'd for Use. One of these Fallopius has presented us, but by reason of the Sublimate therein, upon which the principal Efficacy depends, I shall wave the Transcript thereof.

I have frequently cut out my slips of Linnen-Cloth worn fit for the purpose, and dissolving about a Dram of the Roman Vitriol, call'd by the Surgeons

Lapis

Lapis Calestis, in four Ounces of spring Water, I have thoroughly wetted them therein, and gently expressing the Liquor, hung them up in the shade to dry, after as I had Occasion, scraping them out into Lint.

But observe in the use of these sharp and biting Medicines, you must at all times regard your Patients Age, Sex, and habit of Body, for that Remedy which is but mildly Detersive in some rustic Bodies, will be sound a Catheretic in young Infants and Children; where the gentlest also of these last, will prove here an Escharotic or Caustic; but

to proceed.

In old or inveterate Ulcers, accompany'd with this Accident, where the same is grown obdurate, especially if Malignity is suspected, this way by Caustic will be too hazardous, in exciting Pain, as also redious; wherefore the Knife or actual Cautery will be the most esfectual to suppress the farther Growth, and level the excrescing Fungus, as we observed, when discoursing of the Sarcoma: And after the removal of the Eschar, or before the Ulcer is again fill'd up, the surface may be dry'd by the Vitriol or Alum Stones, if the Lint prepar'd as above-mention'd, prove insufficient.

But where you have reason to be jealous of a Cancer, to be inser'd from its horrid Aspect, livid Complexion, turgid Vessels round about, inequality in its Surface, Induration or great Hardness, sprouting Fungi, like the heads of the Colly-slower, and withal cutting or darting Pains quite through, frequently returning, swiid or stinking Gleets, with Hamorrhage, as were observed in our account of that terrible Disease at the end of our first Section. Observe what we have there advised, and be just both to your Patient and your own Reputation, by an honest Prognostic: That is, having apprised him of the Danger, do what you

can

can to palliate and make him easy, if you concern your felf at all, but meddle now with no Corresives, nor deceive him with a vain hope of Cure.

And thus much of Ulcers with fungous Flesh, concerning which, it may be farther necessary I should acquaint you, that during your local Applications to the same, the habit of your Patients Body is likewise to be considered, and where there is Plethora, large and repeated bleeding will be requisite, together with a spare Diet: The former to empty the Vessels, and keep under any feaverish Effervescence kindled in the Mass of Blood, by reason of a sharp and painful Remedy made use of to wast the Hypersarcosis; the latter to abate from the nourishment of the Parts in general, and prevent the too great Assume of the nutritious suice to this in particular, which would supply still farther Materials to the Disease.

If the Body be Cacochymic, Purgation must also be directed at proper Intervals, by which not only the noxious, but the superfluous Alimentary Hu-

mours will be exonerated.

Compression and strict Bandage, especially after the Fungus is taken down, are here also of absolute necessity to suppress the rising of new Flesh, and keep what is risen upon an equality with the Edges of the Ulcer, in order to cicatrise from the same: And Note, that during the use of Catheretic, Septic, or Caustick Medicines to destroy the supershuous Flesh, a Digestive is to be apply d over the outside, that may hasten off the Sloughs thereby occasion d.

It were needless I think to give Instances either of this or the foregoing, which are every where so exceeding Common, that scarce a Fontanel but shews us an Example of this last, especially in most Bodies, or a simple Ulcer with Pain and Fluxion in the hot and dry of the first: So that avoiding all

I can of being too Prolix, the Uker we shall next take notice of, is, that with Callous Lips.

Of Callous Ulcers.

Ulcers with Callous Libs.

This Accident is very common to Ulcers of long Continuance, and in others of a shorter it is sometimes promoted by the too early use of deficcative Medicines, before the Digestion is accomplish'd, or the incarning of the Ulcer rightly Compleated ! Whence the Juices flowing to the Part, which should be turned into Matter, or converted into new Flesh, being by these means stopt about the sides and brim of the Ulcer, indurate thereupon, and having more of the same supply, stagnating as it were round about, the Callosity is increased, and the Lips farther thickened, by which the Cure of the Ulcer is obstructed and render'd impossible, till the said Callus is foften'd, and way made for the imprison'd Humour to come forth and fill up the Cavity: Or being implete with found Flesh, to shoot forth from the Edges, and as it were Chrystalise into a new Skin that may cover the Surface thereof.

Wherefore it is evident, that the prime or chief Intention in the cure of these Ukers, is first of all to foften or relax the indurated Edges or Lips of the same, which you may attempt by some Emollient Decoction, as a Fumentation; also by Cataplasms, Emplasters, or Embrocations, the former may be prepar'd, ex Rad, Alth. Bryon. lil. Fol. Alth. Malv. Verbasc. Parietar. Mercurialis. Branc. Urfin. &c. with the the Liquor of which after the use of the Fotus, a Pultis may be made by thickening with the pulv. flor. Chamom. Sambuc. Melilot. Sem. Lini ac famugr. of the Magma of the Decoction being well bruifed and

pulped, may be apply'd in the same Form.

Em-

Emplasters for this purpose are those de Mucilagin, cum Ammoniaco Solut, or that ex Ammoniaco by ir felf.

Liniments or Oyls are the Ungt. Dialth. Ol. Lil Lumbric. ex Pedibus Ovil. also the Axungias, as the Porcina, Anserina, and beyond them all, in the Opinion of some, the Humana.

But we have less reason to multiply Remedies for this End, fince what we have formerly deliver'd concerning the Schirrus, may be transfer'd hither.

being equally ferviceable in these Cases.

If the Callus is so firm, hard and cicatrifed about the Edges, that the Pores of the little Tubes are thereby as it were lock'd up, the same is either to be rub'd off with a Caustick, or cut away with the Knife; afterwards afresh digesting the Ulcer with the Bahlicon and Precipitate, and continuing still for the farther relaxing and fetting open the Pores, the use of your emollient Applications round about. When having repair'd the loft Substance, if there was any to fill up, the remaining inequality upon the Lips common to these Ulcers. may be sometimes level'd by Plaister Compress upon the prominent Parts, affifted by a ftrict Bandage, especially the laced Stocking or Arm-piece, which may bring the Parts protuberating to fall in, and by the help of your Epulotic, to cicatrife smooth and even with the reft.

This way of cutting off the Callous Lips of Ulcers. as well as Burning, was not only customary with Severinus, by some call'd crudelis Chirurgus, or the fevere Surgeon; but is recommended also by Sennertus, and even Galen prefers that way of Extirpation by the Knife, to the Escharotic, being much eafier to the Patient, and less subject to intervening

Accidents, if fafely fituate.

while

The Septic or Caustics for this use, may be taken from what we just above deliver'd concerning the Ulcer with Hypersarcosis; where the Edges are raw. the milder may be first Experimented, such as the Ungt. Apostol. or Ægyptiac. mixt with some Catheretic Powders, as the Merc. precip. rub. Turpeth. Min. illotum. Pulv. Angelicus or the like, more or less, as the Callus happens to be confirm'd, and according to the strength and habit of Body also. But if the Lips are skin'd over, they will bear yet stronger Remedies, as the velvet Caustic, the Butter of Antimony; nay the Lapis Infernalis it felf, or the strongest Soap-Lees boyl'd up to a Stone, as we have describ'd the same at the beginning, or in our first Section, to be rub'd round the Callous Lips, till they are fufficiently excoriated; after which, and the Sloughs thereby occasion'd, separated and cast of the others. a degree milder, may now very probably fuffice to confume the remaining hardness.

It has been customary with some Practitioners [and I have used them my self formerly] to apply the Arsenical and Sublimate Troches, either powder'd and mix'd up with a Digestive, or in a Past, like the Troch. de Minio. shaping the same to, and covering the Callous Edges all round therewith: But I have already, from my own, and others Obfervations of bad Accidents sometimes ensuing these Applications, shew'd my dislike of such Compositions, nor can I see any necessity of calling them into common Use, when we have others less hazardous, that will perform our Work: So that leaving you to felect fuch, as may be with more fafety enterprized, from those we have here, and in other places, recited, I shall proceed to the Sinuous and Fistulous Ulcer. When I have given you one History of a Callous one, and farther acquainted you that at these times also the Patient is between whiles. whiles to be purged with some suitable Cathartic, in which Calomel, if nothing forbids, is always to be an Ingredient, as the most potent Remedy to incide and attenuate the Viscous Humour any where impacted in the Body: The Diet likewise is to be fuch as affords good Juice, and is eafily Digefted, while the whole Physical Regimen is prescribed with a view of perspiring the stagnant Juices, and referating the Tubes therewith obstructed, as we formerly observed concerning the Schirrus; and farther taking regard, that whilft you are using these sharp and corroding Medicines, to the Lips of the Ulcer, the Parts about are well defended by some Anodyne Reftringent, or repelling Application, whether Plaifter, or lenient Embrocation, as we mention'd at the beginning of this prefent Section, when discourfing of the Fluxion attending those Ukers complicate with great Pain and a hot and dry Diftemperature.

A Person middle aged, of a Bilious, thin Tem-HIST. 7 .. perament, from scratching a Pustule on the outside of his Leg, had the same gradually improv'd into an Herpes exedens, or a fretful Ulcer, the Compais of a Hands breadth, with high and pouting Lips all round, but hollow, and withal unequal in the midft: In order to the Cure whereof, he had undergone much Pain, through the Sublimate, Aluminous, and vitriolick Washes, made use of by several Empirical Undertakers, in hopes of drying it up, neither regarding the Digestion of the Ulcer, nor correcting the malign Disposition of the Humours, by proper internal Remedies; from whence a sharp Ichor only flow'd, and that in great quantity, the Edges grew Callous, and the Ulcer so excessive painful, that he could take no reft.

In this wretched Condition he fent for me, after he had thus languish'd for two Years and upwards:

And

And truly upon the first taking of the Rollers wet with a flinking Gleet, and the frightful appearance of the Sore underneath, crude, hard, unequal and painful, I was suspicious of a Cancer, till enquiring farther into the Case, and the Method of their late Treatment, I had better hopes: Yet at best, perceiving it like to be a Work of Time, I recommended the Hospital, as the easiest way of Relief, for a Person who I thought otherwise incapable of gerting the same: But this it seems was an Affront, and under some Resentment, he told me if I could Cure him, as mean as he appear'd, he would give me Ten Pounds, and had a Friend upon occafion, that would advance for him fo much more: I told him, it was never my way to warrant the Cure of a cut Finger, much less so stubborn a Malady as he labour'd under, that being fit only for Quacks, and other Impudent Pretenders; But I did believe his Cure might be accomplish'd, and if he put himself under my Care, I would use my utmost endeavours for the same, wondering indeed that a Person who had Twenty Pounds to ascertain for Satisfaction, should have apply'd to these vile Impostors, who had almost ruin'd him.

The next Day a Person came from him, who made me fuch an Offer, as was agreeable; and I immediately began the Cure, by rubbing the Lips of this large Ulcer, with the Lunar Cauftic, which was several Minutes before it enter'd or discolour'd the same; the rest of the Ulcer I cover'd over with Precipit. rub. and a Pledgit of the Bafilicon Flavum,

rolling up the Leg.

There were feveral fmall rotten Ulcers, or deep Holes in other parts thereof, in each of which lay a putrid Slough, the Edges in like manner indurated, by means of those harsh and drying Application ons, which had been here also apply'd, these I

dreft up after the same manner.

The next Day after Application of the Caustic, and the Use of the Precipitate, I perceived the Gleer much abated, with a small Tendency to Digestion? The Patient assuring me, that after two or three Hours from the dressing, the Smart going off, he had more Ease than in many Months before, and was able to lye in his Bed, without rising in the Night, which he had not done of a long time.

In those Parts of the Brims where the Caustic had made Impression, in order to thicken the Estachar, and penetrate deeper, I dip'd the End of my Probein the Butirum Antimonij, and lacquer'd it all round as it were of a Silver Colour: The other Parts where it had not made any, I lightly excoriated with a Touch of the Lapis Infernalis, then sprinkling on more of the Precipit. apply'd the Digestive over all the other small ones, dressing each with a shitable Dossil dipt in warm Liniment, first shaking on a little of the same Powder, with an outside Pledgit of the Digestive, rolling up again as at first.

Thus in about ten Days time, the Sloughs digesting out of these small Ulcers, the same were soon after mundify'd and grew eafy, the Edges foftening and in good Forwardness towards healing: But those of the large one were more stubborn and rebellious, being likely to prove a Work of longer time. However being Digested, as the Sloughs upon the Brims occasion'd by the Butter of Antimony, cast of, I renew'd the same or the Lunar Caustic, gradually as he could bear it, till I had walted a great part of the Prominence round about. embrocating the inflamed Parts with a little Ungt. Sambucin, and confining my Patient for the most aft to his Bed, without which Engagement, I would never have undertaken the Work; for here-TOP OF II.

by the Fluxion was kept off, and the Tumour, which when I began was very confiderable from the Knee to the Toes, was in a manner totally fubfided.

When I had thus digested the Uker, I put him upon taking the Alterative Electuary with th Æthiops, the Medicated aq. Cal. as directed in the eating Ulcer with great Pain, likewife Calomel, between whiles, with the Rheubarb Infusion the next Morning to purge of, as thus.

R. Calomel. 3i. Conf. Francast. 3ss. m. f. bolus sero vesperi sumendus.

R. Rad. Rhei. tenniter incif. 3i. Fol. Sena 3ij. sem. Coriandr. p. j. Sal. Tart. 3i. Infundein aq, bullientisq, s. pro Colatur. Ziij. in qua solve Manna opt. Zi. & f. potio leniens Cathartica pro segti, mane. Repetatur Bolus Mercurialis & porio lenitiva semel in 7ª. pro iv. vicibus.

Nevertheless such was the inveterate Nature of the Humour, and the Stubbornness of the Brims, that tho' I had laid them almost upon the Level, they would not skin, but rather sprout up again even before the casting off the Eschar, remaining still Cancrous, jagged and unequal, the Flesh likewise in the middle no longer clean or florid than the Precipitate was continued: So that perceiving the flow Progress made for some Weeks past, and fearing I should be foyl'd in this way of proceeding, I proposed the laying of a flat Cautery lightly, and only once, upon the callous Brims of the Ulcer, and that way have try'd to subdue their stubborn malign Quality, but my Patient would not hear of it, beginning to be uneasy, as I was my self.

The Uker was yet too painful for the strait Stocking, which I had got ready for him, and had laced on once very gently, but he could not bear it.

About

About this time I was call'd in upon an antient Gentleman who had formerly been chief Surgeon of an Hospital Ship, to consult upon a venereal Case then under his Care, and in some Talk of Cancrous and Callous Ulcers, he told me he had an infallible Cerate for diffolving the fame, which I understood was, an Opodeldoch like that of Wurtz, only made a little fofter than our Dispensatory Empl. of that Name, of which he presented me with a Gally-Pot, and I try'd it upon our Ulcer, as I had done the De Ranis cum Mercurio, and a Quick-filver Liniment before that: But I could perceive little ground gained hereby, more than the former; fo that for making some greater Effort by way of Revulsion, and for his speedier relief, I order'd 8 Grains of Turpeth. Min. in a Bolus, which worked as he call'd it doggedly, that is foughly, but which I perswaded him was the fittest Remedy for a dogged Disease. Two Days after this, I perceiv'd a fenfible Amendment, and fo did my Patient, being much easier and freer from Pain, the Ulcer milder, better digested, as well as the Flesh of better Colour, and the Brims more tractable, the little Ulcers prefently after Cicatrifing.

I still continued the Precipitate with the Digestive, and Silver'd the Edges where they lay yet high and

uneven, with the Butirum Antimon.

The fourth Day after, I gave him 9 Grains of the Turpeth, which strain'd him as before, Vomiting him ten or a Dozen times: The next Day he grew so easy that I got on the strait Stocking, lacing gently that he might be the better pleas'd with it at first, and straitening gradually every Day.

The second after the last Vomit I perceiv'd him slavering, complaining of the Soreness of his Chaps, and that he could eat no Victuals, and looking into his Mouth, I found some Sloughs beginning to

fix on the Inside of one of his Cheeks, his Gums fwell'd, and his Breath stinking: Wherefore taking the Opportunity, and concealing my Intention, I order'd a proper Regimen of thin Broths and Grewels, muffling up his Jaws with Flannel tack'd up to his Cap, and repeated the Turpeth. the third time; so that his Mouth growing still forer, a Salivation came on, when I encouraged him with Hopes of a speedy Cure therefrom: And indeed he was the better reconciled after a few Days, perceiving as the Sores in his Mouth, and his Spitting increafed, that in his Leg healed with a little Precipitate now mix'd with the Digestive for the middle, and my Cerate on the outlide; by the Help of which and the strait Stocking, the Edges softening and lying fmooth, we daily got ground, and before his Spitting, which lasted 21 Days, was at the Heighth, the Ulcer from the Breadth of a Palm, was drawn into the compass of a half Crown: When by the Help of dry Lint, with the Cerate over it, his Cure was compleated at the Months End from the first Dofe of the Turpeth. in which time we made greater Progress than in two before, or than we were likely in two or 3 more without this Revulsion. which render'd this malign Ulcer so mild and tra-Etable, that asin the Case of other Cancrous ones from a venereal Taint [tho' here was no room to fuspect any thing of that Nature] we could see at each Dreffing a manifest Progress to the Cure.

After this I purged him 3 or 4 times at proper Intervals, kept him sometime after to his Sarsa Drink, and enjoyning the Continuance of his laced

Stocking, fecur'd him from Relapse.

Of Sinuous Ulcers.

We are now come to the Simous, and here I think of simous I need not tell you that an Ulcer is so called, when be-fides the common Cavity [if there be loss of Substance] some farther Hollowness either strait or winding, is discoverable upon Search with the Probe, under the Skin or Musculous Flesh, wherein Matter is lodg'd, and whereby, altho' you have incarn'd or fill'd up that common Cavity with Flesh, and brought the same to a Cicatrix, yet are you as far as ever from a Cure, by reason of the said Matter nesting it self

in that Sinuofity or Passage out of Sight.

These are commonly the Effect of some Absces or Apostemation gather'd and broken, where the Matter having infinuated between the Interstices of the Muscles, if seated on the sleshy Parts, or into the Cavities of the Joynts, when near unto the same, and after the Discharge, altho the visible Hollowness which contained great Part of the said Matter, unites or otherways heals up, yet that from the Sinus inconspicuous, still continues from some Orifice on the outside leading to the same, retarding the healing up of the User, and at sometimes rendring it very difficult, if not impossible.

In order to the Cure whereof, when you have discover'd what way the Sinus runs, if recent and well Scituate for the purpose, you are first to fit a Plaister Compress, as we have formerly directed to the Length and Breadth thereof, endeavouring by good bandage over, to express the contained Matter and unite the Hollowness, which if not of too long standing, and superficial withal, is frequently brought about hereby: But this proving inester to the contained Matter and unite the Hollowness, which if not of too long standing, and superficial withal, is frequently brought about hereby: But this proving inester

ctual or impracticable, you are to try, if by making a Vent or Opening in the lower or more depending part of the Sinus, you cannot hereby drain off the Humour, and unite the Remainder, as we took Notice in the Phlegmon suppurated, and as is practis'd in the Milky Abscesses of Womens Breasts, by which you may sometimes save your Patient much Pain, and hazard, also ensuing the cutting through the whole Cavity, where the Nerves, Tendons or Arteries

lye in the way.

But if this cannot be done, as in Sinus's running deep into the Joynts, among the tendinous Parts, the large Blood-vessels, also into the Cavities of the Breast or Belly; or unfuccesful, as in Ulcers of long Continuance, where the Parts underneath are all Tainted and Corrupted by the Virulency of the Matter: At fuch times, I fay, there will be wanting a found Judgment and Circumfpection; for altho' in the Superficial Simuofity, that lyes clear of those Dangers, you may boldly enter the Shank of your Probe-Scissars, and snip them up at once, yet in those profound and intricate or winding, having also more Cavities than one, which is very frequent, you will fee the Necessity of that Knowledge in Anatomy, the Study whereof I have so earnestly advis'd you to, at the conclusion of my fourth Section; by which you may be instructed where the Rocks and Shallows lye, and where you may fafely fleer the Course of your Knife, without wrecking your Patient's Limb, or Life, or your own Credit and Reputation.

It was this Knowledge, Gentlemen, that many Years ago, before Anatomy was arrived at the Perfection it is at present, which made that bold Practitioner Severinus, so fam'd for Cures, by others passing for incurable, and by which he made himself further Noted for that of a Sinyous Ulcer, in

the Perinaum of the Son of the King of Fez, where two Dicers at some distance were found to communicate by one common Sinus, which he undertook and laid open, and also cur'd, after all the greatest Artists in that Kingdom had pronounc'd the same, through Ignorance 'tis to be suppos'd in the anatomical Diffection, as absolutely incurable: But returning;

In the farther Management of these Sinuous ULcers, whether penetrating the Joynts or other Cavities of the Body, and thereby rendered incapable of throwing open, you may take those proper Hints. for your Direction, which we have before in our last, laid down for Wounds penetrating those Parts, wherein we have told you the main Stress was lay'd upon the internal Prescription, to temper and soften the Juices of the Blood, and dispose the Parts within for Consolidation: And in those Sinus's altho not penetrating the inward Cavities, yet by reason of Danger from some Tendon or Artery in the way, less capable of being dilated, having in vain try'd to compass your Design by Compression and good Bandage, where the Parts will admit thereof, as in Wounds, so likewise here it is proposed we should make use of Injections, taking Care the Limb be so placed as may afford a ready Passage out again for the same; for furthering whereof, if you fhould think fit to make Experiment, I would advise you as some others have caution'd, to let the external Orifice remain open at the time of throwing in the Liquor, by no means Ropping or keeping it in with your Finger or Pipe that filleth up the Entrance.

To this purpose, after Digestion, in order to mundify, Decoctions may be prepar'd ex Fol. Hyperic. Centaur. Marrub. Chelydm. Abstath. Agrimon. Apis rad. Aristol. Enul. sewer or more, in which according to the degree of Putrisaction, are to be dis-

D 4

folved

solved Mel. Rof. cum Tinct. Myrr. vel Flos Ungti. Ægyptiac. 3ij. of the first 3s. of the second with 3ij. of

the last to thi, of the Decoction streined.

After Detersion, in order to agglutinate, your Injection is to be prepar'd ex Rad. Symphiti. Tormentil.
Bistort, Fol. Plantaginis. Equiset. Cort. Querc. Granat.
to which are added the fine Powders of Myrr. Sarcocol. Alves. Thus. together with the said Mel. and
where greater Desiccation is requir'd, the Aq. Calcis
cum Syrupo de Rosis siccis; likewise a Solution of the

Lap. Medicament.

During the Use of these, which I must confess I was never fond of, as believing without the Help of Bandage little good would come thereof, the Patient must be kept strictly to a Decoction of the Woods, among which in the cold and Phlegmatic Constitution, the Guajacum takes Place; but in the hot and dry, the same must be left out. To these may be added at the Close of the Decoction, one or more of the agglutinative Plants, or those call'd Vulnerary, observed in our Discourse of Wounds, to which we refer for avoiding Repetitions. The Patient is also sometimes to be purged with Calomelanos. Nor shall I think it needful to give Instances of these Ulcers, which are so very common, that scarce one Absces happens which does not furnish some Example hereof.

Of Fistulæ.

Of Fistula. When the Simuous Ulcer therefore has been of long Continuance, and not only in its outward Orifice, but through the whole Cavity thereof, has contracted a Callosity, it then changeth its Name for that of Fistula, in whose Cure, as in the last, you are duly to weigh the Place of its Situation, to what Parts reaching, and what may happen to iye in your

your way, should you enterprize the Dilatation, all which confider'd and found fafe, yet contrary to the former, you have generally something ver to do. I mean the wasting or consuming of the Callus, which has harden'd their Cavities, as it were into so many Pipes, and from whence they have derived their Name of Fiftula: For it is chiefly this Circumstance, that renders these Ulcers more difficult of Cure than the former, and which were fo rarely accomplish'd by the Antients, at least in these Parts, that even within one Century past, the Cures of this Nature were accounted Miracles; and it was very remarkable, in one of your Fraternity, then living in Tower-freet, by name Boovy. who, as Dr. Read gives us to understand, had written over his Door Sdoubtless in Gold Letters. Here liveth one that can cure a Fistula.

The Seat of these Fistula is very commonly some Emunctory of the Body, fuch as the Groyn or Armpit, also the Joynts, with the Cavities of the Breast, and Belly, many of whose Cures are only what we call palliative, that is, according to fome, proceeding by the way of mundifying, and agglutinating Injections, where the Pallage for the fame out again. can be fecur'd, which in those especially not penetrating the Trunk of the Body, may be with greater Safety enterprized, as we directed but now for the Simous Ulcer; or depending wholly, as in those which do so penetrate, upon the Traumatic and Balfamic Remedies directed internally, whilft the outward Orifice of the Ulcer, is kept open as a Fontanel, in the manner described for the penetrating Wounds of the same Parts.

The Anus is also subject to this Disease, which if the recent Production of a Phyma, or an Apo-Remated Hamorrhoid, and not extending its Hollowness beyond the Command of the Finger in

Ano, is with less Difficulty cured, either by the Ligature or Incision; but if of long standing, or grown Callous through its whole Cavity, the Trouble will be found much greater; likewise if it lye out of reach, or pass its Matter from above the Sphinter, there will be Hazard, more especially in elderly Persons, by cutting through the orbicular Fibres of the same, of the Stools passing in-

voluntarily afterwards.

For the Cure of a confirm'd Fistula, or which is the same, a Sinuous Ulcer grown Callous, there are Leveral Catheretics used to wast the said Hardness or Pipe-like Nature of their Cavities, and in diverse Forms, the Basis of which are the Alumen. Vitriolum, Merc. Sublim. corrosious, Auripigm. Calx viva. Æs uft. Merc. Precipit. rub. Turpeth. Min. alb. seu, Hot. Butir. Antimon. Several Forms of which you have in the fam'd Troches of Andronius, Polyida, Musa Joannes Arden. which being Powder'd, are made into a fort of Paste with some Unquent. as the Ung. Apostol. fuscum, seu agyptiac. mundif. ex Apio. with which Tents of fufficient Length and Bigness are armed, and rolled round in some more of the faid Powders, when they are introduced into the Cavitv.

Some dissolve these Powders in Liquors, and then inject them, but this I think a Practise not sit to be imitated, not only on account of the Pain and Uncertainty of their coming out, as either too soon or not soon enough, but for that of their unequal or disproportionate Operation, whilst they destroy more than is needful, being thut up in some winding or depending Sinus, and leaving others in a manner untouch d, that lye higher

above them.

In rustic Bodies, where the Pipe is small, out of the way of any nervous Parts, notwithstanding my Prejudice against the Sublimate, I have yet adventur'd to wast the Callosity with a Troch. of Minium, rolled up Tent-Fashion, which I should not have cared to use upon others. This being left in for a few Days, with a Digestive on the outside, comes away with the Callus sticking round in the Shape of a thick Slough.

The Form of which Troches as I have used them

my felf. I shall here give you.

R. Medul, panis alb. 3ss. Merc. sublim. corros. 3i. Minij. 3ss. Aq. rosar. q. s. ut ex omnibus permixtis sormetur Pasta, ex qua siant Placentula vel Trochisci ac Rotula, in umbra ad usum exiccanda.

Where I have been fearful of these, I have sometimes rolled out a Bit of the velvet Caustic suited to the Cavity, and hasten'd the Digesting out the same, with the Eschar thereby occasion'd.

The Pulvis Angelicus may be prepar'd in like manner cum Micapanis, as were the Minium Troches, and rolled out into diverse Lengths and Sizes

against Occasion offers.

Others lastly for the same purpose make use of the medicated Candle, prepar'd throughout its whole Length, as it is used to consume the Caruncles in the Virga, tho' somewhat stronger for a Callosity consirm'd by Time, a Form of which you will meet

with in my Siphilys.

The Callus being thus destroy'd, and the Ulcerdigested, you are now to set about the Cure, either by the Mundifying Sarcotic, or Agglutinating Decoctions above prescribed, where you cannot come with your Knife to dilate the Sinussity: Or where you can, if the same lies deep or thick, as we said faid in our Discourse of Abscesses thus terminating, you may have some Advantage, by farther enlarging or widening the said Cavity with a Tent prepar'd of Gentian Root, or a Piece of Sponge fitted for that Purpose, which being enter'd the Sinus, and imbibing the Humidity thereof, will in few Hours distend it self, and enlarge the same to more than twice its former Dimensions, even at once or twice using; whereby in few Days you may not only make more room for your Instrument, but so thin the Parts, as to render the dividing much easier to your Scissars, and less painful to the Patient.

For this End, you are to pick out the pithy and fost Roots, or being dry, to make them so, by laying them in a moist or damp Place, as a Cellar, where they will soon become fit for Use.

The Sponge Tent is, I think, well known to be prepar'd out of Slices of the common Sponge, before-hand wash'd and clear'd of any sabulous Contents, then dry'd, and afterwards dipt in the hot Melilot Plaister, when it is immediately placed between the flat Plates of a juicing Press, and there squeezed close; after this, being throughly cold, it is taken out and laid by for this Oceasion; when it is cut into fuch Lengths, and of fuch Capacity, as to fill up the Hollow of the Uker to be enlarged: And thus I shall finish what I intended to deliver concerning this particular Ulcer, after an Instance or two of some of them, and exhorting you to remember that before you enterprize these Operations (at which you should have always present some able Senior Assistant,) you are not only to prepare your Patient's Body beforehand by Bleeding and fuitable Purgation, one or both, as the Circumstances may indicate, but to see also, as well sometime before, as after, that

he observe the strictest Regimen; for which, and where such Help is to be had, it behoves you likewise to call for the Advice of a Physician, who may direct such proper Aheratives and farther Remedies, as may rectify or mend the present corrupt State of the Humours or Juices, lest otherwise the purulent Particles being now shut up in the Vessels, a Hestick Flame should be inkindled, and the Patient thereby have just Cause to date his greater Missortune from the Day of his Chirurgick Cure: Which Cases are not uncommon; and happy were it for these unhappy People, that they would content themselves with their weeping Fistulæ, unless they became the Physician's Patient

before they enter on their Cure by Surgery.

A Person of middle Age, full Habit, and free Hist. 72 Living, being feiz'd with an Inflammatory Fever. of the Pleuritick Kind, attended with a dry Cough, little or no Expectoration, great Thirst, Oppression on his Breaft, and reftless; after 10 Days Attendance by his Apothecary; the Case in a manner desperate, notwithstanding repeated Bleedings at the Beginning, a Tumour shew'd it self on the Outside, above the Diaphragm, at some Distance from the Spine; upon which Account I was call'd in, and pronounc'd the same a Critical Translation from Within; to forward the advance whereof, I advised a Cataplasm of the Fici pingues, Rad. Lil. alb. Alth, Sem. Lini ac Fænugr. as for the Phlegmon that way tending, has been mentioned formerly; by the Repetition of which in a Week more, the Tumour advancing arose high and prominent, and the Matter began to fluctuate underneath: Whereupon, with all convenient Speed, to prevent a Rupture thereof into the Cavity on the Infide, I laid a Caustic towards the Bottom of the Rifing, and returning in an Hours Time, pierced

the Eschar, whence there flow'd forth a large Quan-

tity of a greenish ill-scented Pus.

After which I dress'd up the Ulcer with a Pledgit of Basilicon, a Plaister, light Compress, and Bandage, being a Child's Roller of fit Length round the Trunk of his Body: But the same Evening I was call'd to renew my Applications, the Discharge still continuing, and fouling all the Bed in a surprizing manner; the Patient through the Greatness of the same, together with the putrid Stench, often fainting away; and indeed, when I came to see the Condition he was in, it seemed as if the whole Cavity of the Chest had been a Pond of Matter, issuing forth this Rivulet I had made for its Discharge.

Dreffing up again as before, and shifting his Linnen, I order'd him a comfortable Julap for the Support of his Spirits, with some Volatile Drops therein; also Hungary Water as an Epithem for his Forehead, Temples, but more especially his Nostrils; and farther, that they should burn somewhat frequently in the Chamber, that might in

fome measure overcome the Scent.

The next Day, being provided of an Elixiviat fotus, with some Camphorated Spirits put therein, I took off the foul Cloaths, and having order'd the Parts round about to be clean'd, apply'd Stuphs express hot out of the same, as the Condition of

the Part allow'd.

The Discharge still continu'd in greater Quantity than could have been expected, and withal extremely settid, insomuch that I was deliberating once, whether or no an Injection prepar'd from a Decoction of some Vulnerary, as the Summit. Centaur. Hyperic. scabiosa Agrimonia, or the like, with a little Tintt. Myrr. & Mel. Ros. might not be useful in Deterging, or at least Correcting the Putresaction:

But the Fear of the same not venting together with the Matter, restrain'd me, (as it had done several times before,) especially when I restected upon 2 or 3 Cases where I was call'd in, and where I had Reason to surmize the like Practice, instead of Helping, had done much Harm. So that continuing my Fomentation, and dressing after the Manner. I began, till the Eschar separated, the same now lessen'd daily; when forming a Tent armed with Thread for its Extraction, and dipping it in the warm Bals. Tereb. with a little Tinctura Myrrba, I passed it down to the Bottom of the Ulcer, the rest being fill'd up with Dossils dipp'd also in the same Mixture, a Pledgit of Liniment externally, and the Bolster with Bandage as before.

Upon Discharge of the Matter, the Symptomatic Fever went off, but a Hellic enfued in its Place. or rather a putrid Intermittent, with returning Flushings in the Cheeks, accordingly as the Exacerbation and Remission of the same came on: His Cough was now more humoural, having a Mixture of the same Matter as was discharged by the Ulcer, his Breathing still anhelous, and colliquative Sweats for foon as ever he fell into his Sleep; all which coming upon a Subject, especially who by Hard-Drinking had near spoil'd before an excellent Frame of Body, could prefage but little Likelyhood of a Recovery: However, to obviate all we could his prefent Symptoms, I directed a Balfamick Electuary with a Vulnerary Decoction, as an Apofem, to be drank therewith, also a Lynclus, and a Pearl Julap.

R. Conf. Rof. fruct. Cynosb. & 3j. Balf. Lucatel. 3fs. Pulv. Haly recent. pp. 3ij. Syr. de Symphito q. f. ut f. Elett. cujus capiat Q. N. M. ter in die horis med cum cochl. in Aposemativ infrascripti Superhaustis.

R. Rad. de Symphito Zi. Bellidis cum toto Mj. Fol. scabios. Agrimon. Heder.ter. Capil. ven. Summit. Hyperic. a Ms. Rad. Liquirit. Zij. Coque leniter in aq. Font.q.s. ad thiij. colatura cui perfecte depurata per sub sdentiam adde Aq. Limac. Mag. 11-ss. Syr. Bals. Tolut. Zij. m. f. Aposem.

R. Ol. Lini rec. s. i. Extr. 3ij. Syr. Papav. Rhaad. 3j. Syr. Bals. Tolut. 3ss. Sperm. Ceti 3iss. m. exquisite pro Linctu, de quo Cochlear capiat urgente Tussi vel Phlegmate opprimenti.

R. Aq. La&t. Ceras. Nigr. ā 3v. Cinnamom. Hord. Paon. C. ā 3ij. Coral. rub. pp. Margarit. pp. ā 3i. succh. Chrystal. q. s. m. f. Julapium. cujus [phiala prius agitata] sumat Cochl. tria vel quatuor in languore Spirituum, precipue sudoribus obrutus.

Aftersome time, tho' my Patient feemed to get ground, yet finding the Discharge too great to allow of shutting up the Ulcer, when by Compress round about I had united the Sinuofity externally among the Muscles, and fitted the same for it, I passed in a Cannula, by which the Matter by degrees dreined off, and after some Weeks by means of the Testaceous Remedies with a Milk Diet, a Medicated Ag. Calcis instead of his Traumatic Aposem. Milk also and a China Decoction, as here follows, his Blood was foften'd, and the Hectic Flame in a manner extinguish'd, so that he daily got ground and recruited in Flesh, when the Matter ceasing to flow longer forth, the Cannula was extracted, and the Orifice admitted to heal up; fince which, living more regularly than formerly, he has enjoy d a State of Health beyond Expectation, being grown bulky again as before, but liable to a Cough upon the least intercepted Perspiration, or, asthey callit, catching Cold, subject also between whiles to an Inflammation

Fire. 73.

tion of those Parts, which, however, has been kept under hitherto by free and timely ventilating the Blood by Phlebotomy or Venesection.

R. Rad. Sarsaparil. China incis. à 3ij. Ras. Sassafr. 3ss. infunde prius in aq. Calcis tenui califacta thoi. per xii horas, dein coquantur ad medias, sub smem addendo Capil. Veu. sanicul. Pulmonar. à Ms. Golature clara adde Syr. Bals. Tolut. 3iss. & f. Aposema de quo bibat 3iv. primo Mane, quarta Pom. & ultimo Vesperi.

R. Conf. Rosar. 3j. Spec. Diatrag. fr. 3ij. Chel. Canc. simpl. Coral. rub. pp. a 3j. Syr. Capil. Ven. q. s. M. f. Elect. cujus capiat Quant. N. Mosc. Mane & Vesperi, superbib. thss. Apos. seq. cujus eandem capiat quantitatem per se quarta Pom. cum tertia parte Lactis Vaccin. admistam.

Re. China nodos. tenuiter incis. Zij. Caul. Angelica ac Rad. Eryngij condit. ā Zj. Rasur. Ebor. & G.C. ā Zss. coq. in aquf. q. s. pro Colatura thiij. qua perfecte claraper subsidentiam, reservetur ad usum supra ordinatum.

Not must I pretermit what I think had very considerable Share in this remarkable Recovery; I mean the Balf. Sulph. Anifat. of which each Night for a Month together that is succeeding, he took 8 or 10 Drops lying down to Rest, in a Spoonful of the following Mixture, and to which he still has Recourse with great Benefit when he finds himself stopt up by Cold.

R. Syn. de Symphito Balf. Tolut. Capil. Ven. & Aq. Cinnamon! Hord. a 3j. m.

This Balfam is wonderfully extoll'd by Sylvins, as is the Terebinthinate one by some others, for the Vol. II.

Cure of Internal Ukers, as well of the Lungs as other Particular ylemit but sent ve danishid reben

Indeed in the true Phthifist or Pulmonary Confumption, where some Tubercles inflaming and apoflemating have formed Ulcers on those Parts, I have been fearful of administering these Balfam: as well as the natural ones of Peru and Gihad, by reason of their great Heat. Yet want we not Fautours of this Practife among our Modern Physicians of Note also. Thus Dr. Gibbons, in the last Stage of this Disease, where true Pus is daily fpit up, gives frequently the Gilead Balfam to Di. twice a Day: The like Practife was espoused by Dr. Cade, together with a Course of the Testacea. and the Asses Milk, or China Decoctions at proper Intervals ; but I will give you another Inflance of thefe Ulcers. Vaccin, 'admifteen.

HIST. 73. A Girl of about 10 Years of Age, having for s or 6 Days past laboured under a Peripneumony, at least that Disease complicated with an Inflammation on the Pleura, for want of timely and plentiful Evacuation by Bleeding, was reduced, when I was fent for, to the State of a dying Person, breathing with the greatest Difficulty, or Orthopmical, as Phylicians call it, i.e. unable to refpire, unless sitting upright, a settled or fixt Colour in her Cheeks, with a hard Pulse and dry Cough, the Extreme Parts in a manner cold; whence making a Prognostic of the utmost Danger, either by the burfling of an Abscess inwardly, or making its Way through the Branches of the Trachea into the Bronchus, and that way hazarding a Suffocation, I immediately order'd her to be let Blood; but through the Difficulty thereof, no Blood being this way to be drawn off, I directed a Cupping Glass to be fet upon the pain'd Part of her Side, and Blood thence extracted by Scarification; which

which I had more than once found successful in Cases of the most imminent Danger of the like kind, directed by Sir R-d B-r. A Veficatory likewise was order'd for the Neck, and the following Oily Draught every 4 Hours for 4 times; also 6 Spoonfuls of the Apozem drank warm between whiles.

farming an Postigua by way of Frankeiter R. Ol. Lini rec. 3j. Syr. Papav. Rhead. 3ss. m. f. Haustus. of this Walk conformation as knowing

are thirted to a Count R. Decoct. Pectoral. depurat. toj. Fimi Equin. 3ii. Infunde simul & filtretur per Chartam, addendo Ol. Nuc. Mosc. gut. ij. f. Aposema.

The next Day Matters seemed at a stand; no Expectoration nor Alleviation of Symptoms: She had taken only two of the Oily Draughts, and drank but little of the Infusion, her Stomach turning, the faid, against them: Wherefore, finding her obstinate, and the Parents foolishly indulgent, not pressing what was necessary, I was about leaving them to their own Way, not thinking fhe could furvive another Night; yet considering farther of the Matter, and they promising if I could order any thing which was not an Oily Medicine, they would perswade her, I directed thus:

R. Ag. Cinnamom. Hord. 3ij. Oxymel. Scyllit 31s. f. Mixtura, cujus sumat Cochlear. Subinde Superbibendo Cochlear. 4. Emulfionis Sequentis.

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R. Sperm. Ceti 3ij. Sacchar, albi 3fs. Solve cum Ovi Vitello, & gradatim affundendo Aq. Cardui 3xij. f. instar Emulsionis, tempore Usus Vitrum agitando.

Pedy and Repress the to order Day and hight, wen thin to Bertolen E 2 159 a old of After After this, promising I should hear from them the next Day, and not sending me any Notice, I concluded she was Dead, till about a Week after that I was sent for to take a View of a Swelling upon the Ribs on the outside. Whence I apprehended there was an Adhesion of the Membrane of the Lungs to the Pleura, and that Nature was now bufy in forming an Empiema, by way of Translation to the External Parts: I was the rather suspicious of this Mala conformatio, as knowing the Child always subject to a Cough, and difficult Respiration upon any Motion extraordinary, or any little cold she had taken.

Sh still continued in her upright Posture, stealing a slumber between whiles, her colour in her. Cheeks as formerly, but otherwise a ghastly Countenance, labouring in her Breath, and drown'd as it were in Sweats, which yet were rather hot than cold, and taking very little Food or Medicines, so that the whole being as it were committed to Nature; for the surthering her Endeavours in this desperate Effort, I order'd a dry Cup to be laid on, after which a Cataplasm of the Sem. Lini & foenugr. fici ac rad. Lil. to be boyl'd pulped, and apply'd to the Part.

The next Day the Tumour was much advanced, began to inflame, and rife higher in a Cone, in so much that the third after, I prepar'd a peice of Caustic of the Lap. Insernal. cum tantillo saponis, and sitting a persoration in a bit of Plaister, apply'd the same, leaving it on all Night, and the next Morning penetrated the Eschair, whence Issued near a pint of seeid Matter like the foregoing: After which the Child sound such sensible Relief in her Breathing, that she was able to lye down in her Bed, and slept all the following Day and Night, waking like a Person transform'd, or with new Life.

The Day following, passing my Instrument through the Eschar which I had drest up with a Digestive, after Discharge of the Matter that would then run freely out, I found a Passage between the fifth and sixth Rib, reckoning from below, into the Cavity of the Thorax, or the Apostomated Lobe of the

Lungs on the same side.

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The discharge daily lessening, tho' there still flow'd great quantity between the Times of Dreffing: I made my Prognoftic, that altho' the Symptoms all abated upon letting forth the Matter, yet was there no small danger of a Fistula being left behind, that might drein away her Strength, tho' more leafurely in the way of a Consumption; for confirmation of which I procur'd a Confultation with Mr. Blundel; where it was agreed, that fo foon as the Uker was fit for the same, if the Matter still continued to vent it felf from within, a Pipe should be introduced: In the mean time the Eschar being cast off, I sprinkled the Precipitate on the spongy Flesh on the outside, passing a Tent of Lint fasten'd with Thread, dipt in the warm Liniment of Arceus, into the Perforation, a little way rolled in the same Powder, neithere yet so large but that the Matter had a free Passage betwixt the Times of Dressing: Over this a Pledgit of the same Liniment, a soft Bolster and Bandage round about. I purposely here also forbore the use of any Injection, for the Reasons I have already given before, choosing rather to commit the whole of the Internal Uker to Natures Industry, assisted by proper Vulneraries and Balfamics, then to interfere with fuch as however fuited for to cleanse or heal, were attended with uncertainty of finding their way out again.

Among the former, were the Sarfa Decoction, prepar'd as in our last History, with a small Aquality, adding also the Pol. Tussilag. Heder. Capil.

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Ven. Also Electuaries and Eclegma's, with the Cons. Rad. de Symphito, Rosar. Spec. Diatrag. fr. Coral. rub. Margarit, the Syr. Bals. Tolut. Capil. Ven. and the like.

But the Cough and Hectic still continuing, we changed this Regimen. For our last Refuge the Asses Milk, and absorbent Powders, in the Manner here inserted.

R. Margarit. Coral. rub. Spec. Diatrag. fr. pp. a 3s. m. f. Pulvis, sumendus in Cochleari Lastis Asinini. superbibendo Ziv. ejusdem.

Repetatur Mane matutino, superdormiendo, & 5ta. Pom. quotidie.

R. Syr. Balf. Tolut. Dialth. de Meconio Aq. Cinnamom. Hord. a 3j. f. Mixtura, cujus capiat Cochl. unum vel duo prout Tussis postulat, eadem magis infestante.

The Matter still flowing from the Ulcer, especially upon withdrawing the Tent, that the same might not be pent in, I now fitted the Orifice with a Cannula, and a Plaister snipp'd in the Middle, to give Way to the Corruption issuing through the Pipe, which being fecur'd by the Roller, I gave Directions to their Servant to inspect the same daily; and, as often as there was Occasion, I promis'd to overlook them: At the same Time I recommended their carrying her three or four Miles into the Country, to profecute this last Prescription of the Powders and Milk in a more clear and wholsome Air: When after a Week or Ten Days Time, all things went on with a Success beyond Expectation, the Child to Admiration recovering her Appetite, and therewith her Flesh, and the Difcharge fo leslen'd, that they concluded upon throwing out the Pipe, which began to be somewhat trouble-

croublesome: But finding Difficulty therein, they brought her up to Town, when going to draw out the Cannula, I perceiv'd that by neglecting the Directions I had given, for turning it about once in Two or Three Days, and taking it out once a Week to clean, that the Perforations therein were fill'd up with Flesh shooting from the Sides of the Ulcer, so that it was not without a little Force, and a small Effusion of Pland, that I could my felf difentangle the fame: which being done, I drefs'd up with a thick Pledgit of dry Lint for the prefent, to ftay the Bleeding. The Day after, coming to examine the Orifice with my Probe, I perceiv'd the lower Edge of the Cofta bared, either by the Corrofive Quality of the Matter, or the Pipe rubbing against the same, and which I was therefore forced to make Way to, and to drefs with a small Dossil ty'd round the Middle, moisten'd with the Tincture of Myrrh and a little Mel. Rofar. by which the Work, which I thought now as good as finish'd, was hereby protracted for Five or Six Weeks longer; at the End of which, a small Shiver coming away, the dry Lint compleated the Cure with a firm Cicatrix; the Patient being alive at the Writing hereof, a Woman grown, yet subject to a Dyspnæa, and a Cough, especially if she stays here in Town.

From these two Histories, I think, Gentlemen, we may fairly deduce the following Inferences by way of Corollary.

I. That Ulcers of the Lungs indefinitely, or Ulcers of without distinction, are not incurable; for in both the Lungs these, as well as others of the like kind occurring guish'd daily in Practice, tis evident these Parts were ulcerated. The Case indeed is full of Danger in either way of the Abscess breaking; for, if gather-

ing more in the inward Substance or Body of the Lungs, it burfteth fuddenly into the large Branches of the Trachea, or into the Bronchus, as happens often in the Distemper of this Part call'd the Vomica, the Patient may be instantly suffocated; as on the other, Death may be as certain, tho in the more lingering way of the Phthists; I mean where the Abscess is formed nearer to the outward Surface of the same Parts, and breaking chrough their invefting Membrane, falls down upon the Diaphragm, where if Nature is not firong enough to make a Way for venting the faid Matter externally, as in the foregoing Cases, and other Empiema's, it must communicate its Taint, and raifing a putrid Hectic Fever, end in a Marafmus: Though even here we want not Inflances of her Conservatory Care for the Animal, licking up as it were this fluctuating Matter back again, and discharging it by what Physicians call Anacatharsis, or Expectoration, or imbibing the same by the Mouths of the Blood-vessels, and unloading it into the Pelois of the Kidney, to be conveyed thence with the Urine into the Bladder, as I was once a Witness of.

2. That it behoves us to difference this Abscess and the aforesaid Vomica, which is a Collection of Matter invelop'd in a Cystis, of several Months, some Authors say Years, standing, without Cough or Fever; where being gradually congested, it at length breaks through its Bag into the Passage of the Wind-Pipe unawares to the Patient, who is often thereby strangled as it were in a Moment; which if he has the good Hap to escape, the Matter being thus empty'd, the Patient oftentimes re-

covers.

The most remarkable of this kind that I have met with, was very lately in Mr. Page, a Brewer at Bow, who in one Night's time, upon the burste

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ing of the Cyftis, or Bag containing it, spit up above a Quart of Pus, so feetid, that it was exceeding troublesome to bear the Chamber, tho' but for a few Minutes: This Discharge continued for many Days, much the same for Quantity as well as Stench and Putrifaction, obliging him to keep upright, and almost incessantly pumping as it were, Night and Day, with little or no Rest, under the most imminent Danger; as Dr. Hulse, who was call'd into Consultation with me can teftify; yet notwithstanding the most formidable Symptoms, by the Help of Oyly Draughts and Eclegma's, expectorating Mixtures, with Oxymel, Sperma Ceti Emulfions, Pectoral Aposems, Sarsa and China Decoctions, Solutions of the Balfam of Tolu in Vitell. Ov. and lastly the plentiful use of Ass's Milk. the Discharge at length ceasing, he has surmounted the Disease, appearing again abroad to the Aftonishment of his Acquaintance, as also his Phyficians.

But our Abscess is a very acute Disease of the Instammatory Kind, attended with a Fever, a bard Pulse, dry Cough, high Colour in the Cheeks, and great Straightness of the Pracordia; or indeed it may be called, what in Reality it is, a Phlegmon of the Lungs and Pleura, which, if not taken off in a Week or 10 Days time, by repeated and large Bleeding, or the Lungs freed therefrom in a plentiful and easy Expectoration, an Abscess as in other Parts, is formed, which sometimes bursting, falls into the Cavity of the Chest, as we have above described, and raiseth a Tumour on the outside, whereby Nature, solicitous as well for the Preservation of the Individuum, as at other times of the Species, finds away for an Escape.

Hippocrates has limited this Matter to 14 Days, in this Aphorism of his, Qui pleuritici, facti, non

repurgantur superne in quatuordecem diebus, his in suppurationem convertitur. But this I think will scarce hold absolutely with us; much less his 40 Days in the following, Qui ex pleuritide suppuratifiunt, si intra quadraginta Dies, ex quo ruptio suerit salta, repurgentur superne, liberantur; si vero mi-

nus, ad tabem transeunt.

To countenance this Aphorism, as dwelling on the Infallibility thereof, Dr. R. Morton has dress'd up a formal Tale in his Treatise de Phthisi, of a peripneumonic Case in a young Lad, where he depended so much on this Dies quadragesimus, that he ordered an Emetic Mixture of Oxymel to be got ready against the time appointed; and I think for the better Gloss to the Story, he should have been in the way himself; however it seems he came in the nick of time, and giving it by spoonfuls, brought up a large Quantity of Matter, which well nigh strangled the Patient, who not with standing was thus, as it were miraculously ex Orci faucibus ereptus.

Upon this Aphorism our ingenious Lister thus

comments:

Hujus Transitionis ratio apud nos, quod scio, rarisfima est; nempe ista suppurationes diuturna ex morbolaterali, si vomica non fuerint, at valde frequentes suerunt in Gracia. So that altho' with this Gentleman I can say, Hippocrati sidem do, cum de iis mentionem fecerit, haud ita tamen Mortono, quia raro aut

nunquam evenere nobiscum.

Dr. Morton its plain was too much wedded to Hypothesis, to give a just or faithful Register of Physick, an Instance sufficient of this, we have in that Opinion he had taken up of a venenum spiritibus implicitum, by which he was led into the most pernicious Errour of exhibiting the hottest and most siery Alexipharmics, such as the Theriaca Mithridat. Electuarium ex Ovo Rad. Serpentar. and

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the like in the Inflammatory Fevers, which oftentimes requir'd a more temperate, if not a cooling Regimen, and doing much more Mischief. doubtless by the extreme hot, than Sydenham by the cold one: The like Mistakes he must inevitably run into through his beloved Fondness of the Bark, which he had carried to that length, that laying aside Alexipharmics, or Diaphoretics, of all Kinds how opposite soever the genious of the Fever might be thereto, yet if there appear'd as he expresent himself, velut umbra Remissionis, the Bark was thrown in, contrary to the daily Observations of Mischiefs sometimes thence arising, before the signs of Concoction in the Urine, and the irreparable hazard of many Lives destroy'd thereby; notwithstanding his Collection of Cases, which he has drawn up to justify a Practice condemn'd by almost the whole Faculty, but in general the most Learned and Experienc'd of the present Age.

So strangely overseen are sometimes Learned Men, to abuse even the best of Medicines for the sake of an Hypothesis, of which I have thought sit, Gentlemen to give you this Intimation, that others by the Example of so great a Man, may not be lead into a mistake of that important Consequence to the Lives of our Fellow Citizens.

3. We are to distinguish between Ulcers of the Lungs arising suddenly from an Acute Inflammatory Disorder in the Blood as aforesaid, turning to Apostemations, which being discharged in the manner we have been Discoursing, are sometimes cured, and those appearing in the way of Congestion after a Chronical Illness, as the Scurvy, Kings Evil, also the drying up of old Sores, Oc. Whence the Secondary or Symptomatical Consumption of the Lungs ensues; Fubercles being first of all formed therein, which sooner or later accord-

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ing to the way of the Patients Living, and the Disposition of the Humours thereunto, Instance and turn to Matter; whence their vesicular Substance being further corroded, Ulcers are here produced, and Matter truly purulent Spit up, which happens generally in the last Stage of a pulmonary Phihisis, and for the most part bidding a Desiance to our Art, as well through the continual Motion of the Parts, as the Impossibility of a Medicament, either Detersive, Sarcotic or Epulotic, coming at the same with that full Energy or Force, as to others within the outward reach thereof; but now proceeding.

We have already observed to you, that the Anus is very often the Seat of these Fistula and finuous Ulcers, of which having given you an Example or too, we shall hasten to those complicate

with Varices.

Bist. 74. A Gentlemen middle Aged, Subject to the Hemorrhoids, but otherwise of a good Habit of Body. coming off a Journey, in which he had heat and bruised these Parts, began to complain of great Pain and throbbing on his Buttock, some distance from the Amus, which he neglecting, either by Bleeding, Anodyne or diffcutient Applications, Temperance and lying by, to avert the Fluxion, but Drinking as usual, and walking about as long as he was able, after a Weeks time fent for me; who upon Examination, found a great hardness upon the Muscles of the Buttock, with an Inflammation firetching towards the Anus, Matter, tho' deep, feeming to fluctuate: Wherefore to encourage the Suppuration, there being now no other way of helping him, I order'd the Cataplasm of Figs, and Lilly Roots boyl'd in Milk, intending the next Day to have open'd it by Caustic: But asking my Opinion of the Nature of the Malady, and

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y s, ie receiving Answer that it would prove Fifulous, he could by no means believe that, he said, because it was so far off the Fundament: However the Poultice was apply'd, and by the next Morning the Matter had burst through: Upon which he sent me Word I need not trouble my self, for his swelling was no more than a common Boil, and being broke, he was perfectly easy; nothing doubting but a Salve they had in the House would finish the Cure.

I was no ways concern'd at this Message, as little questioning but he would find himself mistaken; for the the body of the Tumour lay somewhat distant from the Amis, yet the Instammation extending up to the same, it was very sufpicious that the Matter passed from within the Intestine sirst of all, there being so great Instammation upon the Neck of the Bladder also by consent with the same, in that for some Days passed he was in extreme Misery, being under a continual Tenesmus of this Part, as well as of the Fundament, and scarce able to render a spoonful of Water but in great Pain; for easing him wherein I had the Night before directed him as follows.

R. Pulv. Ocul. Canc. Simpl. Sal. Prunel. Sacchar. alb. a 3i. m. f. pulvis in tres Chartulas dividendus. quarum unam Solve in Haustulo Emulsionis Sequentis. Trepetatur quartaquaque bora.

R. Sem. Luctuca & Papav. alb. \$\bar{a}\$ 3s. Amygd. d. excort. no. vij. Contusts Affunde aq. Hord. [in qua 3ss. Gum. Arabic. fuerit soluta] this & Colatura adde Aq. Cinnamom. Hord. Syr. De Alth. \$\bar{a}\$ 3j. M.

and stips Blood, throw up as M. office

An Emollient Clyfter was likewife thrown up to procure a Stool, which he had not had for some

Days paft. I : Mountain out the tar foreser :

But these Symptoms vanishing upon the Difcharge of the Matter, he concluded himself out of all danger: Till having try'd his Family Salve for some Weeks, and the Matter still continuing, an old Woman was confulted, who Tented the Orifice, and that way promifed to make a Cure in a short Time, altho with as little Success.

When feveral Months had thus passed, he threw out the Tent, and contented himself with his former Salve on the outside like a Plaister, till by the Discharge and trouble of Dressing being tired, and feeing no end of the Work this way, he came one Morning to my House, and acknowledging his Simplicity in entertaining fo wrong a Notion

of his Cafe, defir'd my Affiftance.

Upon a View of the Disease, I perceiv'd that by length of time, and the drying Waters in which the Tents had been dipp'd, not only the outward Orifice, but through its whole Passage, from the Buttock towards the Anus, the Sinus which ran that way, was now grown Callous or Pipye, fo that before I could it lay open, with any Advantage, there was a necessity of wasting the Callosity: In order to which, having prepar'd his Body for the Work, I came one Evening, and introduced a Troch of Minium, or rather a Tent of the same, of sufficient length and thickness, with a Digestive and adhesive Plaister on the outside, also the T-Bandage for security thereof.

The next Morning I perceiv'd him fomewhat Feveriff, Thirfty, and through the Pain it had given him, he had been all Night restless, altho now much abated: However, to take off the Fluxion, I let him Blood, threw up an Emollient Clyfter, and

directed an Emulsion, to abate the Inflammation, and contemperate the heat of his Blood, like that I had formerly prescribed: And renewing the Digestive, I perceived the Tent surrounded with a thick Slough like a Plug, which after few Days thrust

out together therewith word and and to

The Callosity thus removed, and the Uker digested with Basilicon on a Tent of Lint rolled over with the Precipitate, I made a farther Enquiry with my Probe, and having satisfy'd my self in its Course, when I had somewhat thined that Part, by the Gentian Root, with a strong shank'd Probe Scissars I cut through the Sinus, which yet was very thick, to the Verge of the Anus, filling up the Incision, on account of the Hemorrhage, with dry Dossils, a Digestive on the outside, and the Bandage as at first, confining him now to his Bed.

This Wound being likewife digefied with the Doffils, made up fofter, dip'd in the warm Liniment of Arceus, and in a hopeful Forwardness of Incarning, there being still a great supply of Marter, I was confirm'd in the Suspicion I had from the first entertain'd, that the Sourse of this Mischief was still out of fight, and that the Matter originally formed in the Coats of the Gut, by falling down lower on the Muscles of the Buttocks. had raised the Abscels: For satisfying my self wherein, the Ulcer as I faid but now, healing daily towardsthe Fundament, I passed my Probe up whence the Matter came down between the Tunics of the Intestine, whilst my Fore-finger of the other Hand was introduced by the Anus, as high up as I could reach, with which I could plainly feelthe Probe on the other fide; fo that having incarn'd the Wound upon the Buttock, and fitted it for a Pledgit of dry Lint, in order to Cicatrife, I proposed the Dilae roll d up, to his vent the re-linion of the

ing of this Sinus, by the Intestine, or that otherwise he must content himself the not with an Issue on his Burtock as formerly, yet with a constant Drein by the side of his Fundament, which I gave him a few Days to consider of, whilst we were

healing of the other Wound.

He was indeed very defirous of being well, but difficultly perswaded to another Cutting, preferring the Ligature, which he had been inform'd would supply the Place: But when I told him that Method was much more tedious, and full out as painful, as being liable to worse Accidents from the Fluxion, and that before I could pierce the Intestine, and draw forth a crooked Probe with the faid Ligature, in order to make the Stricture by the Tye, I might in the other way have the Work dispatch'd at once: He acquiesced, and the Day following, provided for the Work, I enter'd the one Shank of my Sciffars by the Orifice, with my Finger guiding the other in Ano, and having got up as high as it would reach, I drew forth my Finger, and at one Stroke laid open the Cavity: But perceiving as I was about the Work, the Scissars giving way upon their first Gripe, at the Verge of the Amus, I was fearful I had not reach'd the extent of the Sinus: Wherefore passing up again my Finger, I felt a forked Partition, letting in the top thereof like the Finger of a Glove: Upon which, unknown to my Patient, who thought I was forcing in my Dreffing, I thrust up a Scoop, I had by me, made for the Work, almost like one of those the Cheese-mongers make use of for their Tafters, with which, diffending the Intefline on the opposite Side, I strait re-enter'd my Scissars, and snipp'd open that Partition to the upper end thereof, then clapping in my dry Doffils hard roll'd up, to prevent the re-union of the fresh

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fresh divided Lips, with a Compress of Tow on the outside, and the customary Bandage, I drest up, directing an Anodyne Draught, ex Aq. Cinnamom. Hord. 3js. Syr. de Meconio 3ss. Conf. Frac. s. m. 3j. not only to quiet the Pain, but to prevent his too suddenly going to Stool, which his Body was very prone to; also the Decost. alb. for his

Drink upon the same Occasion.

The next Day, extracting the Dossils, I perceiv'd a fair Wound, into which once more gently passing my Finger, oil'd for its easier Entrance. I found that Work compleat; when dipping a Probe Tent of suitable Proportion to the Wound, in the warm Liniment, I introduced it with a Pledgit and Bolster, and dress'd up again: After which being well digested, to prevent any spongy Flesh, I continued the same Dreffing roll'd in the Precipitate, gradually shortening the Tent, leaving always one ready armed, with Instructions to his Wife how to apply it, in Case of his going to Stool in my Absence: And thus, in less than a Month, finish'd his Cure; during the greatest Part of which, as well as for some Time after, I advis'd him to an Aq. Calcis medicated with the Woods, that might correct the acrid, scorbutic Salts in his Blood, and prevent any Mischief thence arising, together with the shutting up of his Fistula; and in some meafure to compensate for the same, a Funtanel was. placed in his Leg, which he still continues, as he furmifes, with great Advantage to his Health.

But it often happens that the Fiftulæ, more especially of this Part, are so perplex'd in their Sinus's, or so intricately winding like so many Burrows under Ground, that having laid open one, there are others still discoverable, which discourage the Patient, and render the Cure difficult: Of which

Kind.

Kind, tho' not to the Degree of some about which I have been consulted, was the following.

H187.75. A Carpenter in my Neighbourhood, of a corpulent or full Habit, having for some Days been ill of a Fever under the Care of that worthy good Man Dr. Brooks, by a Translation of the Febrile Marter, a Tumour was raised on his Buttock, in the same Place as the foregoing, at some Distance from the Anus; which inflaming, soon after sup-

purated, and was open'd by Caustic,

The ill Habit of his Body and the Site of the Tumour bordering fo near the Fundament, by an Induration reaching the same, and lying deep under the Flesh, gave me Reason to suspect a Sinuous Ulcer, if not an incurable Fistula, might happen to be left' behind; and therefore I was the more shy in giving great Encouragement, or promising a Cure.

Having let out a large Quantity of Matter well enough concocted, I made a flight Enquiry by the Probe, and found a deep Cavity under the Glutaus, running downwards on the back Part of the Thigh. with another transverse to the Anus, both taking up almost the whole Length of my Probe; which overlooking for the present, whilst the Eschar was digesting off, I endeavour'd to mundify the Ulcer. by strewing on a good Quantity of the Precipitate upon the loofe Flesh underneath, mixing the same also with my Digestive, as well as by Compression and fuch Bandage as the Part was capable of, to forward what I could the Union of the Sinusfity: But finding all Endeavours this Way ineffectual. when the Tumour was now fubfided, I made a stricter Search than before, and entering the Probe into the Sinus that ran directly downwards, found it so thick, that great Part of the Glutaus externus. especially the lower Part, must necessarily be divided, this being the Cavity in which the Matter feemed

feemed principally to be lodg'd, and whence, by pressing upwards on the Extensor Muscle of the Thigh towards the Uscer, great Quantity of Matter daily issued forth: Upon which Account, there being nothing besides the Thickness of the Part to discourage the Work, I passed in a Director, preserving the same now to the Scissars, and bearing it with one Hand hard against the Outside, with a Razor in the other cut into the Sulcus, dilating thus the whole Length, and discharging a large Quantity of Matter nested therein.

After which I fill'd up the large Wound with Dossils of fine Tow, laying over a Wad of the same, moisten'd in Oxycrate, and sprinkled thick with Farina, and a Bandage reaching round the Body as well as the Thigh, to retain the same, and secure the Hamorchage, which however was inconsiderable, requiring no other Styptic than the

dry Dreffings.

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The next Day taking out the same, I order'd equal Parts of the yellow Bafilicon and Linimentum Arcai, to be melted down in a Panniken, into which having first armed some of the like Dossils thin with the Linim. per Se, to prevent their imbibing more of the melted Mixture than Occasion call'd for, as they will when dipp'd in dry,] I lightly laid them, and dress'd up with a large Pledgit of the same Digestive on the Outside, and the Bandage as the Day before: And fo continued for Three or Four Days, till the Wound being digested, by the Help of the Precipitate, I deterged, soon after incarning by lightly strewing the Sarcotic Powders of Aloes and Sarcocol. instead of the said Precipitate, till the large and gaping Ulcer was ready for dry Lint, which was the Customary Epulotic I made use of, in those attended with a moist Intem-

peries,

peries, or where the Flesh is over lax and apt to be

Being near upon Cicatrifed, my next Enquiry was into the transverse Sinus towards the Anus, whence most of the Matter now seemed to flow, and from whence, tho' I had made a bold Stroke through Part of the Buttock, and fomewhat taken off my Patient's Courage, I still expected to encounter a further Difficulty. I perceiv'd the Sinuofity almost as thick, but not half the Length, to reach the Anus; however, being got thus far, I had great Cause to suspect its Penetration higher up in the Intestine, if not some Meandrous Winding towards the Sacrum. I would now gladly have laid open the Sinus towards the Anus, but he defired farther Time, being intimidated with the Uncertainty, but that there might be still more cutting when we were got up to the Fundament. Wherefore having cicatrifea the old Ulcer within a narrow Compass, I told him he must either content himfelf with a Fistula, or give way to the farther Dilatation: As it was, I farther acquainted him, that it would be likely to incommode him in his Seat, and admit a Fistula should after all ensue, it were better to difpense with such as was unavoidable, that was attended with the least Discharge and the fewest Inconveniencies; whereas this at present feem'd likely in a short Time to drein him away: He now again ask'd me if I could warrant his Cure by another Slash, if he should submit; I reply'd it was not in my Power to make an absolute Prognostic, at least till this Cavity was laid open. Upon which he left me, and in the Interim some Pretender had got into his good Opinion, with a Promise of curing him by Injection in a Week or to Days Time at farthest: Which having experienced for a Month without Success, but growing rather

rather abundantly worse, being now in very great Pain, he again begg'd I would come to him: Where examining the old Sinus, I perceiv'd the same, through the drying Liquors that had been thrown in, growing hard and exceeding tender, inflamed round about and threatning some new Abscess above.

In order to his Relief, by again haftening Digestion, I introduced a small Tent, such as the now contracted Orifice would admit, dipp'd in the warm Liniment, with a Pledgit of Basilicon on the Outside, and an Anodine Cataplasm on the inflamed Parts, ex Mica Panis in Latte cum Vitel. Ov. & pauculo Groci: Upon which after the second Application, the Matter that feem'd to threaten a fresh Apostemation, finding its usual Vent, came down in great Quantity and discharg'd as formerly, by which he grew eafy (as when he left me;) and perceiving a Necessity of somewhat farther to be done, I took him one Morning in a Disposition for the Work, and having thinn'd the Sinus what I could by the Sponge Tent, at least made better Way, I enter'd my Probe Scissars, and instantly divided close to the Anus; then fearthing with my Probe on the Outside and Finger in Ano, I discover'd the Communication with the Gut the whole Length of my faid Finger: So that not expecting his Compliance at another Time, I was refolved not to lose this, and immediately passing my Scoop in the Place of my Finger, I enter'd the Button End by the Sinus, and the other into the Furrow of my Director, when with a second Gripe I divided this Sinus alfo, with great Expectation that I had now laid a Groundwork for his Cure. The cross Incifron bleeding moderately all this while, I fill'd up with dry Doffils, then rolling up more Lint, paffed the same close up into the Wound made on the

the Sphinster, fecuring the Dressings with a Bolster

of Tow and the usual Bandage.

The Day following, as well the transverse Cut to the Anus, as the direct one up the Intestine, were dress'd with the warm Liniment, after few Days mixing the same with Precipitate, and thrusting up a Probe Tent by the Side of the Intestine, first arm'd, then roll'd therein, proceeding after this manner till the Wound on the Outlide was near incarn'd, and that within almost heal'd up, both being now dress'd up dry: Thus when we thought all fafe, it happen'd that taking off the Dreffings, I observed a greater Quantity of Matter than had flow'd for several Days past, and examining more narrowly first of all into the Anus, whence I was jealous the faid Matter came down, I could find nothing amiss there; but pressing down with my Probe upon the newly incarn'd Wound on the cross Incision, to my very great Concern, I perceiv'd another Sinus running very deep upwards, where, by the Inflammation, there feem'd a new Abscess forming when I was last called in, of which I took no Notice till the rest was healed up, when I propos'd a Consultation with his Physician and Mr. Blundell, in which it was concluded, that confidering his ill Habit of Body, (though in Truth Neceffity determin'd the Cafe) being highly Scorbutic and withal Asthmatic, it might be of Service to retain this Opening as an Issue, which was done accordingly; and yet now, many Years past, continues with very little Trouble: However, it gave a Handle, I cannot fay whether to an inconsiderate or ungrateful Temper, when he paid me Twenty Guineas, as he faid, with more Reluctancy than he would have given Fifty, had I made a Cure: But fuch, Gentlemen, you well know, is the hard Fate of Surgery, and in the Words of an old Rhimer,

Too oft the Artist takes the greatest Pains, Where he's rewarded with the lesser Gains.

During the whole Course of my Attendance, he was kept strictly to a Guajac Diet, or an Aq. Calcis medicated therewith, and the other Woods, declining Purgation unless a little Calomel. at sometimes, with Lenients afterwards, lest the Bent of the Humours should be that way invited, whence our Endeavours were to avert them.

Of the Varicous Ulcer.

The next we shall speak to is the Varicous Ulcer, Ulcer Now an Ulcer you must know is so term'd, when Varic lying close upon or adjoining to a Varix, or a

knotted turgid Vein.

These, by the continued Supply of a gross faculent Blood, or lying in the Way of the same, hinder the kindly Digestion of the Ulcer, or being digested, the Cicatrising thereof: Or, sinally, being dry'd up, which is most commonly with some Scab or crusty Covering, expose them to break out again, by reason of some fresh Eruption from the Vein, or by rubbing off the Scab to a new Fluxion of Humours, with great Pain attending.

The Seat of the Varices are most commonly the Thighs, but more especially the Legs, also the Bottom of the Belly, particularly in pregnant Women, through the Weight and Distention of the Uterns at such Times compressing the Trunk of the Vena Cava, whence the Return of the Blood being slacken'd, and its progressive Motion render'd still more dissicult by the Position of these

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Parts in the standing or fitting Postures, it thickens in certain Parts of the Vessel, into a Grumus, distending the Sides thereof to make Way for other the thinner Parts to pass by, that an entire Stag-

nation may be prevented.

These Varices are sometimes enlarged to a great degree, as we took Notice when speaking of the Aneurisma, and are often observed to lie naked in the Ulcer, whereby the Corrofive Quality of the influent Humour, by the Heat and Acrimony of the Blood itself, or that of some deterfive Medicine made Use of, together with the Rottenness of the Coats of the Vessels themselves, by lying long exposed, they often suddenly burst, and great Quantity of the Mass, together with the Spirits, are exhausted in the Patient's Sleep, or sometimes waking, before the Surgeon is at Hand to hinder the fame.

The Anus, or Fundament, as also before remark'd, by reason of its Situation, is very much incident to these Varices, which swelling and becoming painful, break forth and are named Hamorrhoides aperta seu sanguinantes, the bleeding Piles. as when they swell but do not shed their Contents. they are termed Coca, or blind ones; tho' this last Name is given them by some when they lie conceal'd up high within, of which we have fufficiently treated in another Discourse.

The Testes, in like manner with the Spermatic Vellels, are subject to the like Malady for the same Reason, their dependent Posture, as we acquainted you in our Discourse of the Varicocele and Cireocele among the Hernia: But speaking now to the Cure, of which this Varicous Ulcer admits either one that is Real, but feldom or never practifed a-

mong us, or Palliative, which is the usual,

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The first of these is perform'd by opening the Skin and laying the Vessel bare, after which the same being taken up, and a Ligature made both above and below, the Varix or knotted Vessel as was perform'd in the Aneurism, is taken out, the Ligature being left to digest off, and the Wound afterwards healed as others of the Skin and Flesh underneath.

Hildanus tells us in his 4th Cent. and 85th Obs. of a very considerable Cure of this Kind, where the Uker was most inveterate, and accompany'd with a prodigious Varix of a Span long, thick as the Wrist, and divaricating from the Ham, downwards of the Leg, which having separated from the Skin and Flesh, and ty'd up the Vessel, he cut out and healed the Uker.

Severinus was also noted for these and the like, desperate Operations, which procur'd him however the Name of Severinus Severus, or the Cruel.

Surgeon.

But even this Operation, tho' much less hazardous than the Deligation of the Artery, will not go down with our People, who are ready to runfrom us at the naming the laying open or cutting out the Varix, and rest content therefore with a palliative Cure, that is, digesting the Sore with Lenients, and repressing the Growth of the Varices by restringent Applications under a strict Bandage; endeavouring to dry up the same by some gentle Epulotic, such as our Cerate de Lap. Calam. Ungt. Tutia Diapomphol. and the like.

It is this *Ulcer* indeed that has occasioned so much Work for the *strait Stocking*-Maker, to whom the Patient is often more obliged, than to the Surgeon, who without this Help can do very little in the Cure: In enterprising whereof, as I said but now, having digested the *Ulcer* with *Basilicon*, ei-

ther by it self or mixt with the Precipitate, as the Condition thereof shall require, you are, as we farther took Notice, to apply all round, some repelling, drying and restringent Application, that may intercept the Flux of Humours, and repress the Varix, of which Kind are the Ol. Ros. vel Mirtil. cum Aceto Conquassat. Compresses likewise press dont of the Juices of the following Plants, viz. Fol. Plantag. Burs. Pastor. Millefol. &c. or for Want of these the common Oxycrate may supply the Place.

The Ulcer being digested, and the Patient eafy, I commonly direct a Pledgit of Diapompholigos, which agrees usually very well with these Ulcers of the depending Parts, or my Cerate abovemention'd. When encompassing the Limb all round with a Defensative Emplaster ex Diapalma Bol. ver. Sang. Drac. cum Ol. Rof. & Acet. Vin. alb. q. f. I cut a Hole therein for the easier dreffing of the Uker; after which I give Direction that the Limb is well fitted with the strait Stocking, which I moderately lace up from the Toes to the Gartering below Knee, as the Condition of the Sore, more or less painful, will allow; by which the Cure of these Ulcers is much facilitated, I mean the palliative, holding commonly during the wearing of the laced Stocking, which many [and glad they can compound fo] are forced to continue all their Life-time: Belides a a regular Discipline in the Non-Nat. particularly their Meat and Drink, as well as Exercise: Bleeding also and lenient Purgation being requir'd between whiles, to avert the Fluxion and empty the Cachochymy, not neglecting fuch Alteratives as may temper the Fervour of the Blood, and fosten the acrid or faline Serum thereof.

H157.76. A Woman of a thin Habit, or a hot and dry Constitution, having been for a long Time afflicted with these Varices on both her Legs, a little above

above the inner Ankle, the usual Place of their most painful Residence, at length, for Want of her accustomed Evacuation by Venasettion, and proper Restrictives to suppress the same, an Instammation falling down, the Skin sirst fretting, an Ulcer was formed presently after, and the Humour being very Corrosive, spread round about, eating farther in, which being treated by ill Surgery, a spongy Flesh over-spread the same the Compass of a Half. Crown, and the Thickness of a Finger, making it look so frightful, that by one she had consulted, it had been deem'd Cancerous.

Under this Apprehension she sent for me, when examining the Nature of the Fungus, mild and pappy, a meer Essect of the Blood redundant and luxuriant in the Part, ouzing out of the Varicous Vessel close adjoining, where, by sporting Nature, it was form'd into this Excrescence: Enquiring farthermore into other Parts of the Leg, I perceiv'd, from the Gartering downwards, the Veins all Varicous: So that, as I had no other Reason, I gave her great Encouragement, at least of a palliative Cure, if she would submit to a regular Government or proper Discipline. She then shew'd me her other Leg, where, near the same Place, was also a very painful Ulcer, with a Varix lying exposed therein, and threatning a Rupture, also a great Inslammation round about.

This being incapable either of the Precipitate or the common Digestive, through its exquisite Tenderness, with a Feather dipp'd in the warm Liniment, I lightly went over it, laying down a fost Pledgit arm'd with Diapompholigos, and my Cerate Plaisterwise over that, then embrocating all round with Ungt. Sambuc. rolled the Limb gently as she could suffer me, and confin'd her to her Couch. On the Ulcer with Hypersarcosis, I strow'd the Pre-

cipitate

cipitate pretty thick, laying a Pledgit of the Digeflive thin spread over that to hasten off the Slough, Compress and Bandage, as the Part would allow. After this I let her Blood, to take from the plenitude of the Vessels, and refrigerate the rest of the Mass, prescribing a moistening and cooling Diet, with Emulsions Ex Amygd. d. Sem. iv. frigidis Maj. Barly and Oatmeal Grewels, now and then a little Meat that was fresh and easy of Digestion, but nothing Season'd, Pickled, Powder'd, Fry'd or Bak'd, nor yet strong Liquors of any sort, that might

heat or inflame the Humours.

After few Days proceeding in this Manner, I perceived the Ulcer in which the Vein lay bare, still Crude and indigested, with a Sordes on each side thereof, which I lightly sprinkled over with Precipitate, dipping the armed Pledgit in a little of the melted Liniment, and applying thereupon: But sinding the Precipitate not powerful enough to gain upon the Spongy Ulcer of the other Leg, by reason of its continual Bleeding, and washing off the same, I was put upon contriving some Remedy of more Essicacy, but such as should work with as little Pain, least I should not be admitted to renew it as there was or might happen to be occasion, or as necessity call'd for the same.

The Pulv. Angelicus I knew would make a thicker Slough; but was too painful for a pufillanimous Patient, as I had now to deal with: Upon which Confideration I prefer'd the Powder of Calx viva, strowing it over the Fungus, with a Pledgit of dry Lint, by which I observ'd much less Blood shed between the times of Dressing: But neither hereby could I make the Progress I expected, so prone was the spongy Flesh again to pullulate underneath the Eschar. I then try'd a touch of the Butirum Antimorij,

Antimonii, which immediately induced a Silver colour'd Slough, but was too painful to reiterate. So that dipping a flip of Cloth in a Solution of Vitriol. as we mention'd when discoursing of the Ulcer with Hypersarcosis, I scraped the same when dry, into fine sky colour'd Lint, and laying a Pledgit thereof on the fungous Ulcer, thereby rather supprest the farther growth, than gain'd much Ground. Wherefore examining round about the Basis with my Probe, I perceiv'd this Excrescence, like that around some Fontanels with a moist Intemperies, was more than twice the Circumference of the Uker underneath, projecting over the found Parts, and lying close thereon, yet capable of being raifed up by the Instrument, thrust under. When I had made this Remark, I dreft up again as before with the prepar'd Lint, the other Uker still remaining very painful and not suffering the Precipitate, how lightly foever, to be ftrow'd: I contented my felf with mixing a little thereof with the Diapomph. and having befmear'd the Bottom and Edges with a Feather dipp'd in the Liniment, laid it on in hopes thereby of digefting out the Sordes. and incarning upon the Blood Vessel, which lying thus expos'd, I endeavour'd to convince her would perplex her Cure, and therefore I would gladly have made a Ligature thereon, and being now perish'd, have digested it away: But she would by no perswasion be brought to hear of that Experiment, at least as yet: And to render her Nights tolerable, had used to take 3/s. and sometimes 3vj. of Syrupus de Meconio, going into her Bed, with 3/5. of Elect. Lenit. every fecond or third Morning, which gave her a Stool or too and cool'd her Body.

The Day following, I brought with me my Instrument-Maker, to take the compass of the excrescing Flesh at its Basis, having before-hand acquainted him, that I would have a small Iron Plate divided in the middle, each piece or half thereof to be made with a Semicircular Hollow; so that placing the two Plates underneath the Sarcoma on each side, they should encompass it all round, and defend the sound Parts from the intended actual Cautery: The Plates being made a little Concave on the underside to humour the make of the Limb.

At the same time I convinc'd my Patient, tho' not without some Difficulty, that her Cure would be thus expedited, nor would the Pain, all things consider'd, be near so durable as that by the Efcharotics, carrying more of Terror than real Dolour along with it. Approving our Contrivance, the feemingly confented, and taking a piece of thin Past-board for a fort of Model, I instantly with my Sciffars hallow'd the 2 insides, and sliding them under the Fungus, exactly fitted them to let in the fame, then gave them the Workman, who got them ready against the next Day: At which time carrying with me a flat Cantery, a little bigger than the faid Fungus, and encouraging my Patient, I surrounded it with my Plates, whilst an Assistant held them close down with his Fingers, and the Iron being hot, whilft the Leg was held fast by an other, I prest the same close down, shifting it about as well on the Circumference as in the midft, till-I was got upon the Plate, and this without a fecond Iron, or heating my first a second Time: The Patient acknowledging her felf more terrify'd by the Idea she had form'd thereof, than pain'd by the Operation, choosing rather, if necessity so requir'd, another touch of the same, than the sharp Medicines which had before been ineffectually apply'd. But this Work dispatch'd, and the Plates withwithdrawn, I drest up with a Pledgit thin faced with the Basilicon Flavum. and also the other Ancle where the Ulcer digested still slowly, and lay foul at the Bottom, discharging little unless a sharp Ichor, altho' the Inslammation round about was much abated.

The Day following the Burning, I perceiv'd the Crust stick fast, and the Fungus at least level'd with the Skin round about; wherefore I continu'd the same Dressing; and as the Eschar loosen'd or digested off, consum'd the remainder with the Precipit. thick strow'd on, together with a touch of the

Vitriol Stone round about the Edge.

The Hypersarcosis thus removed, I observed several small Varices round about, which seemed to have given rife to the Ulcer, and which were after kept under, healing up by the help of a laced Stocking now put on, and a Pledgit of dry Lint; whilft the less frightful but more fretful one upon the other Leg, continu'd still painful and would not Digest, till an Accident happen'd I was not much concern'd at; for the Coats of the Vessel lying so long expos'd, grew rotten, and in the Night the Blood gush'd forth in large quantity; so that perceiving what had happened, under the greatest Consternation, she call'd me up; where I found many bloody Cloaths by the Bed-fide, and thrusting out her Leg, I discover'd the Blood running down a-pace; upon which taking off the Dreffings, and cleaning away the Grumus, I got a fair View of the ruptur'd Varix, and whilst a Servant held a thick Pledgit of dry Lint thereon to reftrain the Effusion, I prepar'd fresh Dressings and a clean Roller, with what elfe I had occasion for: Then taking a small Button of Lint dipp'd first in Oxycrate, and after in the Powder of Colcothar, I clap'd it down close in the place of the Lint aforesaid, with

with Compress express and sprinkled with Farina, rolling the Limb up again from the Foot to the Knee, intending hereby to destroy the Vessel, at least so much thereof as lay in the way, and was

a hindrance to our Work of healing.

Two Days after I took of the Dressings, and found a Crust induced as I expected from the Catheretic, over which I apply'd my Digestive, and so continued Dreffing for 3 or 4 Days, when a fecond Alarm came of a fresh Flux, which I restrain'd as before, without any further disturbance: The Slough Digested out together with the Varix, by the help of a little warm Liniment, there remain'd only to Cicatrife the Ulcer, which was foon accomplish'd by the Ungt. Diapomph. After this I directed also for this Leg, as I had done before for the other, a strait Stocking, which the continued about Six Months after, and then left them off, only Purging and Bleeding as I had given her Orders, and remained after free from any complaint of this Nature for above Twelve Months longer; when, by fome accident of a wrench upon her Ancle, her Leg began again to fwell and grow painful, and I advised her to have recourse to her strait Stockings, which she has since continued with great Benefit.

Of Ulcers with Caries.

Of Ulcers with Caries. The Ulcer we shall next observe both more troublesome and also tedious oftentimes than the rest, is that complicated with a foul Bone, and thence denominated a Carious Ulcer: Which Caries is sufficed by the fætid Smell, especially if the Tent or Dossil which was thrust down to the Bottom, comes forth at the next Dressing discolour'd and stinking: As likewife by the Discharge, such as a thin Ichor, or Oily Sames.

Sanies, with a Quantity too large for the Proportion of the Ulcer, as well as from the loofe or rotten Flesh in the same, the Difficulty of Cicatrising, and often breaking out afresh.

These, I say, give Ground to suspect the Bone is soul, more especially if seated among those of the Tarfus or Metatarsus, as in Strumous Ukers, or upon the Joints in those of long Continuance.

But the Truth or Certainty hereof is gained by the Eye, where the Cariofity is exposed to the fame; or by Probation, when our of Sight: For hereby in pressing through the spongy Flesh, or entering the Sinus leading to the same, you will discover the Periosteum eaten off by the Humour, and a Rugosity or Porousness that lets in the End of your Instrument, the outward Cortex having been thereby corroded, which hinders its flipping along the same. Tis from the Likeness of these Pores to those made in Wood by a little Infect of that Name, that this Sort of Caries or Rottenness in these Parts of the Body, is named by some antient Writers Teredo: But as in our Discourse of Wounds, we gave that Appellation, I mean of Wound, to the Solution of Unity made in thefe harder Parts, by any sharp or cutting Instrument; fo here also those made by a sharp and corrosive Humour, may, perhaps without a Solecism, be called Ulcers in the Bones, as well as those in the fofter and fleshy Parts.

The Causes of these Ukers are either external or internal: And thus in regard to the former, as we observed in Wounds of the Head, the Carifity may be owing to the Negligence or Ignorance of the Surgeon, in not being so careful as he ought, in preserving the naked Bone from the Influence of the Air, at the Time of Dressing; or Dressing up with some greasy Application, as Vol. II.

well as to the virulent and corrolive Nature of the Humour itself attending and eating thereinto: For fince we find that Metals and Stones contract a Ruft, and moulder when gawl'd by the sharp and penetrating Particles of that Element long Time exposed to the same, no Wonder the fofter Texture of these Parts are oftentimes per-

vaded and thereby corrupted.

The internal Causes are some particular Dyscraf in the Serum of the Blood, or other Juice fecreted thence, which having acquir'd an acrid and malign Ferment, or degenerating from their natural State, put on one that is venene or highly corrofive; and which like an Aq. Fortis or some Stygian Liquor, is not only potent to dissolve the Flesh, but to destroy the Compages of the Bones themfelves, and eat into their Substance, as is manifest in some Strumous Affects, which we have here in our 2d Section already, and in the Venereal, elfewhere observed; but hastening to the Cure:

In the Management of which you are not fo directly to regard the outward Ulcer, or that in the Flesh, as the Caries, or Ulcer in the Bone underneath; without removing which, you can expect no firm or lasting Superstructure upon this rotten Foundation: However, where the Flesh is spongy. as usually at such Times falls out, and lies in your Way, you are first of all to remove the same by fome of those Medicaments we formerly proposed for the Ulcers with Hyperfarcosis, till you have made room to come at the rotten Bone, where it can be fafely done: Which Point being gain'd, you are to keep the Uker distended with Dossils of dry Lint. or dipp'd and express'd from the Tinetura Myrrha, lest otherwise through a Neglect hereof, the said Uker being overgrown again with luxuriant Flesh, you find you had created much Pain to the Patient withwithout any Advantage, having the fame Task to repeat with your Catheretic or Caustic Medicines.

But having laid the Bone thus bare, you are to consider the Degree of Rottenness therein, and finding it only discolour'd in its Cortex or outward Lamen, the Periosteum being newly gone, you may probably get the same exsoliated by Means of the dry Dressings, or the Tincture aforesaid: Or, for the quicker Dispatch, with your Scalprum [an Instrument for that Purpose invented] you may rase off so much of the discolour'd or tainted Cortex, till the Parts underneath appear fresh and ruddy, or of the more natural Complexion, when strewing thereon some desiccative Powders, such as the Pulv. Rad. Irid. Aristol. Myrr. & Aloes, you forward a sound Incarnation thereupon.

Again, if the Caries be enter'd deeper, or is become porous, and withal white, (which is usually worse than the black and smooth) stronger Remedies are to be used, such, I mean, as the actual Cautery or hot Iron, which being daily repeated for some Time, more powerfully dries up the Humidity, and disposeth the rotten Part to scale, be-

yond all other Remedies whatever.

In the Use of the Cautery, these following Directions are however necessary to be observed: First, That you sit the Cavity of the User with an Iron or Steel Cannula, or Pipe, at the Times of using, to defend the Lips and Sides all round from being scorch'd or burnt; which may be taken out and cooled by dipping in Water, upon Occasion. Secondly, That in applying the same, you take Care to shum any Nervous or Tendinous Parts therein exposed, for Fear of Convulsion thereby excited: Nor must you apply them at all, according to some, upon the Cranium or Spina Dorse, less the Brain or Spinal Marrow should be thereby inslamed: Yer, not-

notwithstanding I have frequently used them upon the former, in several Venereal Patients, to dry up a Caries, the Effects of Nodes seated thereupon, and promote their throwing off, without any ill Confe-

quence attending.

After the Use of the Cautery, you may strew on the Powders aforementioned, also the Pulvis Euphorbii, a celebrated Medicament of the Antients for these Purposes: Others propose the Aq. fortis, or Ol. Vitriol. But these I never cared to meddle with, by reason of their exceeding sharp and corroding Property, or the particular Enmity, as we say, they are sound to have (notwithstanding the one of them whitening thereof) to these Parts of our Bodies.

When the Cariofity is by the Means above prescribed, removed, either by scaling or crumbling, and infensibly mouldering off, as happens at sometimes, the Ulcer in the Flesh may then, and not sooner, be fuffer'd to Incarn and Critacife, as in others with loft Substance we have before observed: Bur be fure you take Notice, that in all these Desquammations or Exfoliation from the faid Parts, you must use no force in drawing away the same, till you find the corrupted Piece thoroughly loofen'd from the Sound, and even then if there be any Angle or Point thereof, shooting underneath, or lying intangled in the Flesh, it behoves you to be careful, that none the least Fragment or Particle be Thut in, which would raise afterwards some fresh Disturbance, such as new Abscess or Apostemation; at the best protract the Cure, and obstruct the Cicatrifing of the Ulcer. LUCE III THE A

Farther, if the Caries has seized on the small Bones of the Carpus and Metacarpus, the Tarsus or Metacarfus, also those of the Toes and Fingers, as is very common in the Strumous Distemper, called the Evil, 'cis rare to obtain any Exsoliation here:

For having no confiderable Cavity, when once they are corrupted, the sharp Ichor seizeth upon their whole Substance, so that having waited long in expectation of their throwing off, you will be obliged, either to pinch them to pieces, and extract their broken Fragments, or otherwise content your felf in keeping the Bone in Sight, by suppressing the Fungus, apt to rife at fuch Times, with your Catheretics, and applying to the faid Bone, either your dry Lint, the same exprest from the Tinet. Myrrh. or sprinkling on your deficcating Powders, till Nature thus affifted, feparating the Tainted from the Sound Parts, by loofening the Ligaments that held them down, they rife either in Part or in their whole Substance, and are taken forth, when a Callus may happen, tho' I think but feldom, to fupply their place, especially due Care being taken by suitable Applications, to deterge and dry up the Ulcer, with proper Splints and convenient Bandage to Support the now enfeebled Joint, and prevent the lodging of any Matter, together with fuch Alterative and Specific Remedies, as may have Power to subdue the Seeds of the Original Disease, and prevent its Contagion spreading round about or seizing upon other Parts, as we have before admonished.

But indeed, where any particular Joint, either of the Fingers or Toes, happens to be thus affected, especially in a Strumous Patient, the quickest and the surest Method oftentimes, is the taking off such Toe or Finger, and endeavouring to rectify the Juices of the Blood, by an Antistrumaric Course; otherwise after long waiting for this Exfoliation to no purpose, its odds if you are not forced upon the same.

In like manner, where it happens that the Apophysis or Extremities of the larger Bones are corsupted, and the Caries got into the Joints, the Case

is still more deplorable and desperate, so great a quantity of the nutritious Juices being usually carried of in the discharge from the Ulcer, as to induce, an Atrophy, and bring on a Marasmus, which destroys the Patient: The difficulty being the same in getting these Parts of the Bones desquam'd, as those fmaller of the Toes and Fingers: So that having no other prospect of relieving the miserable Patient, it is your Duty, before he is too much exhaufled, to propose where the same may be practicable, as on the Ankle or Knee, the Wrift or Elbow an Amputation: But if this cannot be enterprized, by reason of the Situation, as on the Joint of the Hip or Shoulder; or where the Patient will not confent thereto, there is little more that you. can do than to keep your Uker clean, the spongy Flesh from rising, and the Caries drest up dry, till Time may dispose it for Separation: Whilst the Physician contributes farther Assistance, by keeping off the Hettic Fever, foftening and contemperating the Juices, ftrengthening the Tone of the Blood. and preventing its Colliquation; through which, either by Sweats or Loofnesses, together with the great discharge by the Ukers, these unhappy Patients are commonly as before observ'd, exhausted or drein'd away: But of this we have spoken already in the Sinuous and Fistulous Ulcer.

In regard to the Method of attempting the Cure by vulnerary Injections, I think the same unlikely to fucceed better here than in those we formerly

took notice of.

As troublesome sometimes, and of bad Consequence also are the Ulcers where a Caries lyes under an Artery or Tendon, and which therefore cannot bear, nor will admir those sharp Medicaments, hot Irons or desquammatory Applications, the Bone requires, and which must therefore be treated in a milder a milder way, till Nature disposeth the rotten Part for Separation: But if the Tendons only, and those of lesser Import, as the Flexor or Extensor of a Finger or Toe, as in some Ulcers of the Metacarp or Metatars, obstructs the Work, or hinders your Application of fuitable Remedies, the same must either be digested off in Slough, or divided, if you cannot otherwise accomplish your End, and the Uker after treated as above directed.

A Limen Draper in Cornhil, riding in a Chaife H137. 77. with a vitious Horse, and trying to brake him, the Horse upon whipping, threw his Hind-Feet into the fame, and with one of them, struck him smartly upon the fore-part of his Leg. Presently after the Hurt I was fent for, and examining the Limb. found there was no Fracture, only a rafe on the Shin-Bone: However his pain was very exquisite. being incapable of fetting it to the Ground, or even letting his Leg hang down.

His habit of Body by a free way of Living, being none of the best, I did all I could to keep off the Fluxion, Bleeding him freely upon the Accident, and after covering the Excoriation with a Digestive, furrounded the Part with a Defensative Emplaster, ordering him to keep up, and to live as sparingly as he could; in respect to his Dier

and Liquors.

rendamos

The next Day notwithstanding, I found a Tumour stretching down the Shin-Bone, so exceeding tender that he could scarce suffer me to remove · the Plaister, or with my Finger, tho' very gently, to embrocate the Part cum Ol. Rosar, ac tantillo Aceti, when laying down the fame, and gently rolling from below upwards, I dress'd him up again with a small Pledgit of my Cerate upon the rased Part. do labor or you one own

The

The Day following, the Swelling still encreasing and beginning to inflame, I took off the Defensarive, and directed an Anodine Cataplasm ex decocto Flor. Sambuc. ac Flor. Rofar. cum Mica Panis, Vitel. Ov. ac pauculo Croci, as directed in the incipient Phleemon, of which Kind I now suspected this would prove, mixing a small Quantity of Unquent. Sambuc. therewith, and embrocating the Parts all round before its Application, the better to keep it foft and easy: But finding our Endeavours fruitless to difcuss the impacted Humour, a Fluctuation being perceptible underneath, after two or three Days more. I changed this also for another ex Lill. alb. cum Ficubus in Lacte coctis, to forward the Maturation and haften the Discharge, considering the Part it lay upon, the Shin-Bone, or Ridge of the Tibia, so nigh at hand: When in short Time afterward the Tumour being suppurated, I apply'd a Caustic on the most rising Part, rather inclining to the Inside, and the same Night let out the Matter: . Upon which he grew eafy; and continuing my Digestive, the Eschar at about the Week's End cast off, and left a very fair and florid Uker, which being dress'd with the warm Liniment, and, as the Flesh therein requir'd, strew'd over with Precipitate, appear'd well dispos'd for healing, the Sinuofity all round, which was at first very considerable, and from whence large Quantity of Matter had discharg'd, uniting by Compress suitably adapted, and the agglutinative Bandage so term'd by the Antients, or the Roller with two Heads, as we have formerly taken Notice, fo manag'd over the faid Compress as to assist the Pressing forth of the fame from the Cavities, and promote the Union of the Parts fever'd thereby: The Bone to all Appearance fafe and not denuded of its Membrane the Periosteum, which however seem'd thicken'd, renderrendering the Uker exceeding painful; and notwithstanding our Endeavours to get incarn'd, it quickly after slough'd off, leaving the Tibia bare on the Inside for about half an Inch in Length, where the Source of the Mischief sirst of all began from contusing of this Part by the Horseshooe.

In order to keep under the spongy Flesh, it was fprinkl'd with Precipitate; and the better to come at the Bottom, and dispose the Tibia for Desquammation, I laid in a Piece of Gentian Root, which by the next Day had fo enlarg'd the Uker, that we had more room for our Dreffings: But the Sore growing very painful, he would not fuffer its Repetition, fo that I was oblig'd to keep the Cavity diftended with hard Dossils of dry Lint, and a moderately straight Bandage for Security thereof, dressing up the Bone with a Pledgit exprest from the Tincture of Myrrh; And whilst we were thus waiting the Exfoliation, a new Tumour with Inflammation arose below, threatening an Abscels. We were now forced to flacken the Bandage, and try to discuss this fresh Disturbance, embrocating as at first with Unguent. Sambucin. When after a few Days the same encreasing with throbbing Pain. I found there was no preventing an Apostemation, and therefore changed the first Application for a Suppurative Cataplasm. Upon which my Patient, fomewhat discontented, call'd in Mr. S-r, a Person, I think, of more Note than Honour, (at least I found him so,) and, I am sure, of no founder Judgment, or more Learning, than many others of our Profession. At our Meeting it was proposed to lay on another Caustic upon this new Abscess, of such Dimensions as to procure an Eschar as large as a Crown Piece; and letting out the Matter, digesting also the same off, we found (as I expected) a very troublesome Ulcer, so apt to be over-run with luxuriant Flesh, that we had near three Months Work to reduce it to a Condition of Cicatrifing, sometimes strewing round the Edges the impalpable Powders of Lap. Calam. Lapis Tutia, prepar dLint, having not without much Pain and Difficulty levell'd the Flesh with that of the Calx viva, or a Touch of the Alum and Vitriol Stones. His Reason for so large an Eschar, was to prevent the Trouble of Dilating afterwards, which the same Compress and Bandage as used in the Beginning, might have obviated in all likelihood; altho' there was the less Notice taken of this, because of our Attendance upon the Caries in the Uker above, which at length began to rife, but lay intangled at each Extreme, and bound down by the Flesh: Upon which I declar'd my Dissent against any Force to extract the same, advifing rather our waiting a few Days for its being more perfectly loofen'd; In the mean Time strewing on the Precipitate upon the Flesh: But my Assistant, impatient of longer Delay, and to shew his Dexterity, I suppose, whilst my Back was another way, thrusting his Probe underneath the de-Squam'd Fragment, and bearing outwards therewith, up fprung the same near a Yard high, with Blood following. However, we continued our dry Dreffings, and, as it happened, meeting with no farther Interruption from any Point or Angle left behind under the Flesh (of which there was too great Hazard, I think, run by this hafty Forcing it up,) in some Time after healed the Uker, whilst the lower created us longer Trouble; and before we could get a Cicatrix, at least fuch as would hold, we were obliged to continue the Patient under a strict Regimen, as to Rest and Diet, giving Calomel, between whiles, ordering also a Laced-Stocking,

Stocking, which he were some Time after: And notwithstanding the vast Eschar upon a Part so sensible as the Tibia, that had occasioned a Work of so long Time, by the Fluxion and Fungus accompanying, which there was no Occasion for; yet by the mean and little Artisice (altho' neither Art nor Judgment did preside therein) of throwing out the Bone, my Assistant was supposed to have wrought a Wonder, and it was surmised by the Family, that had he acted by himself, the Bone might have been got out sooner, and the last Apostemation, whose tedious Cure he had manifestly occasion'd, been prevented: But he is gone, and I have trod, I think, as softly upon his Ashes as I could.

Of the Old or Annual Ulcers.

The last of the Ulcers we shall observe, is the Old of Old of or Annual, so named from its Duration or Conti-Annual nuance of many Years, whereby having contracted Ulcers. an obdurate or stubborn Quality, it will not but with great Difficulty give Way to Chirurgery, whether in Digestion, Mundification, Incarnation or Cicatrisation. Of Kin to this are the Telephian and Chyronian, so called by the Antients, of which before; and in whose Cure you must expect to encounter with much Trouble, because not only the Fibres are difforted, the Tubes indurated, or grown as it were Callous, with the Vessels of all Kinds having Recourse thereto, damm'd up and obstrusted, but the Fluids also, or Juices round about, so vitiated, or perverted from their genuine Crasis, that it must be a Work of Time to render the first so pliable as they ought to be, or to restore the last to their pristine Temper and gentle Dispolition. Farther-

Farthermore, in all these Ulcers of long standing, the same Regard and Circumspection is requir'd, and ought to be used, as we formerly laid down for the Healing or Drying up the Fiftula of any Continuance, viz. That the Physician be confulted to mend the diseased Habit or morbid Condition of the Blood, and the Humours thence by the Glandules secreted, as (after general Evacuations premised) by a Diet of the Woods, or an Aq. Calcis medicated therewith: Also Alteratives specifick to the diseasy Habit, whether Scorbutick, Strumous, Venereal, &c. fuch as the Antimon, Diaphoret. Bezoard, Min. with the Mineral Æthiops; whilft the Surgeon does his utmost with his local Remedies to render the Ulcer more tractable and benign; foftening the Induration as was directed for that with Callous Lips, confuming the Fungus, if any happens to lie in the Way, with such Remedies as were laid down for that with the Hyperfarcofts, Subduing its phagedenic Quality or Erosion, as in the Corrolive or Eating Uker, as before. Laftly, the Rottenness of the Flesh or Bone, as mention'd but now for the Putrid and Carious: and, which you will fee very material, endeavouring to alter the Figure of the same, especially if Circular, whence you will find an Advance towards the Curation; when by the common Method of treating Ukers in general, together with the Affistance of your internal Regimen, as above, you perceive you gain but little upon the rebellious Malady, you are, in the Physicians Absence, to give the Turpeth. Min. once in three or four Days, in a Dose proportionate to the Age, Sex, and Strength of Body, as also Custom to the Use of fuch like Medicines, till there enfues a Ptyalism or Salivation, which must be kept up for 25 or 30 Days, if the Constitution will allow: The feveral other

other Methods of raising which, and how to obviate all attending Accidents and Symptoms, you will find plainly laid down in my Siphilys or Pra-Etical Differtation on the Venereal Disease, printed fome few Years fince.

After this, the Drying Diet, Sweating and Purging between whiles will conduce to the farther Security of your Patient, and preventing a Relapfe, not forgetting the Assistance to be had generally in these Cases, from the laced Stocking or Armpiece, according to the Situation of the Ulcer upon the Arm or Leg: And truly much of this Time and Trouble might be faved, would our Patients admit of the rougher Management by the Knife or Fire, without which 'tis rare to find much Difpatch, or to work any remarkable Cure of this Kind.

The former, I mean the Knife, is employ'd in cutting away the Callous or otherways tainted Flesh all round the Sides, as well as Bottom; then dreffing as a recent Wound with Lofs of Substance: The latter to confume the fame, and treating the

Ulcer as a profound Combustion.

more than the Aborents I'm

HITCHTS-

Severinus, for this Purpose, and at these Times, was wont to lay fine Pledgits of Lint or Tow. dipp'd first in Spirit of Wine, all round the Brims or Edges of the Uker, and then fet Fire to the fame: For Women and Children, a Rag' fpread over with some Mercurial Ointment, was laid between; and for ruftick or stronger Bodies, he fill'd hollow Pipes of Brass with glowing Embers taken out of the Fire, and rolled them back and forwards lightly over the Edges and Surface of the Ulcer, by which he assures us he had cured some of 10 Years standing in less than four times so many Days; which verifies that Chirurgic Apothegm,

Qui non medicamentis, ferro : & qui non ferro, Sanantur Igne. The most best working being Differential or the Veneral

do obtain and poider mailier la share

Neither of which however would avail in the HIST. 78. Cafe of an elderly Gentleman I was concern'd for many Years past, Mr. Darnelli, at that time of the Penny-Post Office, and Brother to a Fellow of our College, now living at Stammore, in Middlesex ? This Gentleman had for many Years past labour'd with a large Ulcer on the Leg, wherein the Tibia lay bare and carious a great Compass, beginning. as I was then inclinable to believe, in the Nature of a Spina: The Edges round about were by length of time grown hard, and as it were Cartilaginous, by no means submitting to the Precipitate, nor indeed to any other digestive or deterfive Medicine, only furnishing a stinking Gleet between the times of Dreffing, which render'd the same

very offensive.

He fent for me to take my Opinion, who coming into his Chamber found an Apparatus by him, as if prepar'd by an Arrist, Dossils and Pledgits of Lint, others larger of Tow, Some armed with a Digestive of Linim. and Precipitate, others with my Cerate de Lapide Calam, which, unknown to me, he had procur'd by some other Hand, his Spoon and lighted Candle, with a Bottle of the Tinct. Myrr. and lastly, a Wad of Tow to lye over all, that might imbibe the Gleet, and fave the fouling of Linnen-Rags, which, through the great Expence thereof, were the more valuable: Finding, I fay, every thing in fo great order, I expected a Surgeon was to have met me, or who had been there to. get the Dreffings ready: But he quickly undeceiv'd me, telling me he had many Mafters, unto whom he had ferved more than two Apprenticeships, meanmeaning Surgeons who had formerly undertaken his Cure, but all of them disappointing him, and having been at a very great Expence, a kind of Necessity, as foreseeing no end of the Work, had put him upon thus practising the Art upon himfelf; by which he had kept his Malady so far under, as to be capable of attending the Office, of which I think he was a kind of Sub-Governour, or

Deputy.

When I came to examine the Ulcer strictly, I found the Cariofity, or rotten Tibia, which lay bare about 3 Inches in Length, and its whole Breadth on the Infide black as Soot, but fast and immovable; whence, and by the many Years it had lain thus expos'd, I infer'd the Taint had penetrated its whole Substance, and that there was little good to be done in fo inveterate a Difeafe: For I perceived he had been no Stranger to the ftrongest of the Desquammatory Powders, as the Euphorbium and some others; neither yet to the Astual Cautery: So that confidering his advanced Age, together with his thin scorbitic Habit. I could not fee any great Likelihood of Success by any Means we could take: And therefore, being shy in the Engagement, I rather persuaded him to continue his own Method, 'till he discover'd any Loofening of the corrupt from the found Park But some new Disturbance arising, and disabling him from getting out to the Office, where his Attendance was expected, he fent for that eminent and judicious Surgeon Mr. Edward Green, who did all that Art could administer for him, attempting farther to fubdue the Malignity with the hot Irons, and haften, if possible, a Separation of the Caries; but Nature was too far spent, and a Conflictation, before upon the breaking up, less able to grapple with fo rough a Treatment: For being

being seized with a Symptomatic Fever, as his Relations conjectur'd from the Pain, a Colliquative Diarrhaa, or Flux, they told me, came on, and quickly funk him under the Administration.

Of the Verminous Ulcer.

Of the VerminousUlcer.

There is yet another Ulcer of a peculiar Kinds and which, from a particular Sort of Putrifaction. affording both Matrices and Pabulum also to such Infects, is called Verminous; and in the Cure of which you are especially to aim at the Destruction of the Animalcules fofter'd therein, before you address your felf to the Ulcer; tho' in doing this. you may very probably, with fome of your mundificative Applications, correcting the putrid Ferment, overcome also the Off-spring thereof: For which End are chiefly directed some strong Decoction of the Bitters, wherewith the Ulcer is to be well wash'd and fomented; such are the Fol. Centaur. Absinth. Abrotani. Tanaceti. Marrubij. Hyper. Menth. Scordij. also the Fella Animalium. Farina Lupin. Pulv. Aloes ac Ejusdem Tin Bura in vino. Extracta, and after digesting with Precipit, and Bafilic. or Linim. Arcai, some proper Detersive must be apply'd to cleanse away the Filth; for which Use are the Mundif. ex Apio. Ungt. Apostol. and in case of greater Putrifaction or Insensibility in the Part, the Ungt. Egyptiacum. But more of this in our Account of the Putrid and Sordid Ulcer.

And thus I shall shut up my Discourse of the Ulcer; which, tho' short of one so elaborate or exactly methodis'd as it ought, or perhaps had been, had my Affairs permitted greater Leisure; vet I hope will be found to answer the Design, and so instructive also as to render any Account of this

Disease.

Disease, as affecting some certain Parts, less necessary: However, not having yet I think exceeded the Bounds of some of the foregoing Sections, I will touch upon a few Particulars unheeded in what went before, that the same may be farther useful.

And First, as to the Ulcers of the Hairy Scalp, Of particular we have already given Directions for those which are usually the most rebellious and stubborn, when speaking of the Achor and Favus, in another Treatise, of the Skin Diseases, Part II. Chap. 2.

Ulcers above the Orbit of the Eye, especially with a bare Bone, require, as well before as after Exfoliation, the most powerful exiccating Medicaments, both Sarcotics and Epulotics, being usually supply'd with great Afflux of Humour, and abounding with Humidities from the Simus in the Cranium underneath; upon which account the Tincture of Myrrh and Aloes may be apply'd with Lint; also the Pulv. Thuris Sarcocol. and the like are at such times mixt up with the Linim. Arcai, or with a little Mel Ros.

The Ulcer of the Eye is in some measure pro-Ulcers of vided for, in what we have formerly laid down, the Corner when discoursing of the Strumous Ophthalmy; besides which, other Remedies may be prepar'd of the subtil or impalpable Powders of Myrrh, Aloes, Sacch. cant. alb. Sarcocol. Thus, Cerussa, Lap. Calaminar. Tutia; which are either to be infus'd in some of the Ophthalmic Waters, as the Aq. Euphrag. Chelidon. Fanicul. Verbena Rosar, or thickned with the Juices of those Plants, together with the Mel Ros. into an Ointment, of which kind is this following from Riverius.

Vol. II.

Ry Suc. Fanioul. Suc. Chelidon. a 3j. Suc. Ruta 3fs.
Pulv. Aloes 3j. Vitriol. 3fs. aris Virid, gr. v. Fellis
Anguilla, Bovin. vel Porcini 3fs. Sacch. Cant. Pulv.
3fs.

. Bullientur succi & clarificentur, dein adde pulveres

fiatque Collirium.

The Cinnamon and Ginger, directed by the Au-

thor, are here omitted.

Heurnius, for the Ulsers of this Part, directs thus; which he calls Infallibile Ophthalmicum, and which I have tried on some foul Ulcers on the Cornea with Success, viz.

R. Lapid. calamin. ter usti & aceto vini extincti 3i. Myrrha, plumbi usti ac loti a 3s. Croci g. v. Opij gr. ij. aris usti 3iv. Decocti Fanugr. 3j. misceantur exactissime supra lapidem porphiritem: vel loco decoct. suprascript. cum Axung. porcin. rec. in aq. ros. lot. ut f. ungt. melioris Consistentia nec non durabilior.

The Ol. Myrr. cum Sacch. cant. alb. Ov. inclus. & humido Cellario per modum Deliquij Extractum, is a good Ophthalmic for these Purposes; as also the Aq. Mellis heretofore observed; so likewise this.

Re Sarcocol. aq. Rof. nutrit. Cerus, Aloes lot. Myrr. Lap. Tut. ā 3fs. Sacch. Cant. alb. 3j. mucilag. tenuior. Sem, Cydon. in aq. Plant. Extr. q.f. m.f. Collyrium.

But observe carefully in these as well as others, that you digest sirst of all, before you go about to deterge, and deterge before you attempt to cicatrise; as we have acquainted you, and by what Means, when we discours'd of Ophthalmia; where we also described the Ulcer called Egylops, and the Fistula Lacrymalis.

The

The Eye-Lyd is also subject to an ulcerous Affe-of the ction, called Lippitudo, with our People a Bleared-Eye-Lyd. nels; by which the inner Part of the lower Lyd most commonly is turned outwards, rendring the Vi-

fage frightful and unfeemly.

Thele Accidents are frequently owing to Burns. upon healing up of which, do all you can to prevent it; a Stricture will fometimes enfue, and the Lvd is pull'd down by the Cicatrix, which is not to be remedy'd. The like Misfortune hath follow'd after the Small-Pox and Measles, where a Flux of acrid or sharp Humours has long attended; together with an Epiphora, or involuntary Flux of Serum in the form of Tears: The Remedies for which, fo far as Art can help, may be collected from what we formerly laid down concerning the faid Epiphora, amongst the Strumous Symptoms: And where it fo falls out, by the great and continual Moisture of the Parts, accompany'd with Ulceration, a Fungous or spongy Flesh arifeth, the strongest of your desiccative Applications there inferted may happen to be wanted, which failing, you may venture to ftrow on, but with the greatest Caution, some of the milder Catheretics, fuch as the Pulv. Vitriol. vel Alaminis, mixt together with a Proportion of the Bolus verus, Pulv. Cort. Granat. Flor. Rosar. ac Balaust. also a light touch of the Lap. Caleftis or Vitriol Stone it felf, taking special Care you excite as little Fluxion thereby as possible.

The contrary Affection to this last, is the Lippitudo Sicca, that is where the Cilia or Eye lashes together with their Cartilages, are, by means of a faline and hot Humour, overspread as it were with branny Scales or Scurf, producing frequently a troublesome Itching on these Parts: In order to the relieving of which Grievance, as in the Humid we directed the most exiccating or drying Topicks, Evacuation going before, so here contrarily such as humest or mosten and refrigerate are altogether most eligible, and such are the Fotus ex Decost. Fol. Malv. Alth. Mercurialis, Verbasci, Viol. Collyria also, or Lotions, prepar'd ex Mucilag. Sem. Lini Psyll. Hord. Gallic. Sem. Papav. in aq. Plantag. Rosar. vel Sperm. Ranar. Cataplasms ex Medul. panis in Laste; after which, or between whiles, for healing up the Excoriation, the Edges of the Cilia are to be smear'd over with the Ungt. Diapompholigos, Tutia, or our Cerate de Lapide Calaminari. Proceed we now to those of the Nose.

Of the Nose.

And here also we must refer you back to the Strumous Symptoms, where we have taken notice of this Ulcer under the Name Ozena, if the same is of that Parentage; and to our Syphilis when Veneral.

Of the Tongue.

Ulcers of the Tongue and other Parts of the Fauces, have either a Relation to the Aphtha, when of the milder Sort, called Benign, or Vene-

real; also Cancerous, when Malign.

The former being digested with the common Pettoral Decottion and a little Mel Rosar. or the Decott. Ulmi of Bates, may, if not submitting thereunto, but spreading, be farther touched with the said Mel and a little of the Tinct. Myrr. or the Egyptiac. it self upon occasion, and after their Detersion, they may be dry'd up with that of some of the vulnerary Plants, such as the Plantag. Equiset. Frugaria, Matrifylva, Aquilegia, Rubus, which are made still more exiccating by the Fol. Rosar. Balaust. Cort. Granat. edulcorating cum Syr. de Ros. Sic. instead of the Mel. Ros. Of which more in our Second Section, when discoursing of the Ranula; as also in the foregoing, of Wounds of the Tongue.

When

When these Affects seising, especially on the U- of the roula and Tonfilla, prove Venereal, you may consult Throat. my Practical Dissertation upon that Distemper, in order to their Cure.

The Cancerous Ulcer of these Parts will bear neither Digestive nor Detersive, nor must you expect to fare better with deficcating Topics; instead of which, you are only to endeavour palliating, by some anodine, lenient, refrigerating and demulcing Gargles or Lotions; fuch as the thin Mucilages ex Sem. Cydon. Malv. Hyosciam. & Papav. in aq. Hord. vel Sperm. Ran, with which may be mixed a few Grains of Niter. also the Sacch. Saturn. Iweeten'd moderately with the Mel Rof. Syr. Diacod. de Nymphan, and the like; and in great Extremity of Pain, the Suc. Solani, Hyosciam. Lastuca, Portulaca, or with these a few Grains of Opium, adding the Syr. Papav. alb. or the Mel Rof. After the Use whereof, the Uker may be sprinkled cum Pulv. Ranar, combust. or the Aq. ex Ranis in medio Alembico suspensis destilata, ut Empyreuma impediatur, may be frequently held in the Mouth; which is accounted a fort of Specific in these Ulcers.

The Ulceration or Erosion of the Gums may be wash'd with a Decoction of the above-mention'd, to which, in scorbutic Asserts thereof, may be added the Fol. Cochlearia, Salvia, in Red-Wine and the Forge Water; or they may be touch'd with a Mixture of the Mel. Ros. and Tinct. Myrrh, also the Spir. Vitriol. half a score Drops to an Ounce of the said Mel: The Mel Elatines and Spir. Cochlearia is a great Secret with some for these Uses; likewise this following is commended for the spongy and putrid Ulcers of the same Parts.

R. Tinetura Gum. Lac. 3ss. Siic., Cocklear. 3ij. Vini rubr. 3j. Mel Elatin. 3ss. m.

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Of the Ear.

The Ulcers of the Ear, I mean its external Cavity, are commonly the Refult of some preceding Abscess or Apostemation: In the beginning of this Disturbance, or where a Tumour ariseth round about, with Inflammation, Pain, Pulfation and other Signs of Suppuration, the same is to be forwarded with a Cataplasm of the Rad. Lill. alb. cum capis Coctis, or the Fici pingues cum iisdem, dropping at the same time into the Meatus a few Drops of the Ol. Lil. Hyper. Chamonel, and after the Difcharge of the Matter, you may digest with the fame, or the Ol. Lini vel Amyad. but in the Use hereof, you must be cautious of persisting too long, for fear of corrupting the Tympanum or Membrane underneath, and prejudicing the Hearing: Wherefore so foon as the Abscess is well digested, you are to mundify with the Decott. Hord. and Mel Rof. after healing with the faid Mel, liquify d with the Tinct. Myrr. and drop'd in two or three times a-Day Blood-warm, as must all other Applications here, as well as to the Eyes.

But in the old, fordid and stinking Ulcers of these Parts, or such as are attended with greater Putrisaction, some stronger and more detersive Medicine must be instill'd; such as a Decoction of the Fol. Centaur. Agrimon. Hyperic. Absinsh. Apij, Marrubij. or the Juices of those Plants express, and being depurated, mix'd up with Mel Rosarium; to which, according as the Sordes may require, are sometimes added the Ungt. Egypt. and for the farther subduing the Stench and Putrisa-

Stion, the Tincture of Myrrh and Aloes.

The Ulcer being thus mundify'd, you may attempt the drying it up, after general Evacuation, with an Infusion or Decoction of some of the Styptic Plants we prescrib'd above for those of the Mouth and Throat, observing still, as we have

but

but now hinted, that in drying more particularly the old *Ulcers* of the faid Parts, which are the proper *Emunctories* or Sinks to the Brain, you must carefully prepare your Patient's Body, by repeated Purgation, with some proper *Cathartic* of the *Cephalic* kind, such as the *Pil. fatid. Cochia Succin.* or the like; deriving the Matter also some other way, as by *Vesicatories* or *Funtanels inter scapulas*, at least placing one *inter Bicipitem at Deltoidem* in the Arm, upon the drying up such *Ulcer* as aforefaid.

Ukers on the Outside of the Jaw, whether Up- Anecessary per or Lower, but particularly this latter, having Caution aa Sinus running towards the Alveoli or Sockets of bout the Ulthe Teeth, require oftentimes a narrower Infpe-Jaws. ction of the Inside of the Mouth, than that of the external Ulcer; in the Dressing whereof, you may happen to find your Labour loft, till some faulty Tooth therewith communicating, is extracted, whence the Source of all the Milchief: And thus I have met with many Scores of these Ukers, some of feveral Years standing, which, upon removing fuch faulty Tooth, have healed in few Days after with a Pledgit of dry Lint. If the faid Teeth on the Side affected do appear, upon the faid Inspection, a like found or rotten, that oppolite to the Ulcer is usually the Tooth concern'd, which is still plainer to be discover'd, if, striking round about with your Phlegm or Spathula on the Sides of them, the Patient finds a Jar, and makes Complaint when you come at that Tooth; tho generally its Loofness and visible Cariofity directs the Operator, where to perform his Office.

The remaining Ones, of the Trunk or Limbs, require, I think, so httle Variation in the Cure, from what we have deliver'd of Ulcers in general, and the particular Kinds of them, that we shall

t ha

Ulcers of the Legs.

have less need to enlarge thereon: Only taking this Notice, that the Ukers on the Legs, those particularly which are fubject to great Pain, Inflammation and Flux of Humours, and more especially in dry Habits of Body, will not bear the common Digeftives used in those of other Parts: upon which account you will be often obliged, in the fuperficial Ulcerations, to drefs with some anodyne or lenient Medicament, as the Ungt. Diapomph. Tutia, or, which excels all others, my Cerat. de Lap. Calam. and where the Ulcer is fordid. remaining crude and undigefted, I usually mix'd a small Quantity of the Precipitat. therewith, if the Tenderness of the Part would not admit of strowing on the same, and first going over lightly with a Feather dip'd in the warm Liniment of Arcaus, (Bafilicon being scarce allowable, especially about the Shins) laid on the faid Application with a Pledgit of Lint, embrocating round about cum Ol. Rof. vel Ungt. Sambuc. or a defensative Emplaster as an Intercipient, with suitable Bandage, injoining Rest with a due Position of the Limb, if not in Bed or upon a Couch, lying along, at least upon some Chair or Stool, near a Level with the Trunk of the Body.





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SECT. VII.

Of Fractures in general.

A T the beginning of our First Section we did observe to you, that the Practice of Surgery was principally employ'd about Tumours, Wounds, Ulcers, Contusions, Fractures and Dislocations: The three first of which have already taken up our six preceding Sections; the Fourth, I mean Contusions, I have formerly noticed in another Treatise, i. e. a Discourse of the Skin Diseases, where the same happen to be Cutaneous, in the 9th Chap. Part II. under the Names of Echimosis, Echimoma vel Sugillatio: So that having neither Leisure nor Inclination to repeat here, what I have there deliver'd: I will only add some short Hints, by way of farther Instruction upon this Subject, and proceed to the Fracture, which take as follows, viz.

rafation of the Blood to be feared, but especially sion about of the Head, Breast or Belly, the Patient must Contuspresently be let blood, according to his Age, ons, and the Method Strength and other attending Circumstances, where of Cure. by not only the Vessels being emptied, may be readier to suck up the dissufed Liquor before it stagnates, but the Consequents of Pain and Fluxion, or the Tumour and Inslammation likewise prevented: At the same Instant you are to apply some suitable repercutient Medicine, that may inhibit in somewise the Course of the inslowing Blood, thut up the Mouths of the distorted Capillaries, and

and prevent the spewing out any more of their

Contents, round about the Parts contus'd.

For this Purpose serve the common Defensative of Diapolma, Bolus verus, Acet. Vin ac Ol. Rosar. formerly mention'd: Embrocations also ex eodem Aceto cum Ol. Myrtil. Epithems of Oxycrate cum Alb. Ovor. or thicken'd with Bole, and apply'd Plaisterwife; Cataplasms prepar'd from the Decoction of the Rad. Symphit. Biftort. Tormentil. Fol. Plantag. Equiset. Burs. Pastor. Cort. Granat. Flor. Balaust. Fol. Rosar. in Red-Wine, or the Smith's Water from the Forge, after thickening with Bean-Flower and

a little fine Bole interspersed.

2. You must take notice, that this Method be esfed only in recent Contusions, or whilst the Difease is, as we say, in fieri; least otherwise, where the Blood has been long extravaled, or thereby deprived of its native Heat and Fluidity, and render'd incapable of returning, it may be faster lock'd up, and turning into Grumes, putrify in the Parts, producing Gangrene and Mortification, at which times you are to mix Discutients with some moderate Refringents; the former to set open the Pores, for breathing forth any Humour stagnis'd and impacted; the latter to constringe gently the Mouths of the Vessels ruptur'd, and prevent any farther Effusion of their Contents.

And for this End a Fomentation may be prepar'd, ex Summittat. Centaur. Min. Hyperic. cum Flor, Chamonel. Rofar. Balauft. decocted in Red-Wine or the Steel-Water, which in like manner may be thickned into a Poultice, with the Farina Fab.

3. Where there is great Effusion of the Blood, and little Likelihood either of repelling or discusfing the same, you are by no means to wait for Suppuration; but having satisfy'd your self, that the Extravafation proceeds not from any ruptur'd

Artery, or that there is no Anacurism in the Case, to be gather'd from what we have before deliver'd of that Disease, you must open the Tumour, and give vent to the serous Humour or Blood coagulate; afterwards digesting the Wound, and proceeding as in those complicate with Contusion, we have also directed.

4. As in those of the Head, all possible Caution and Circumspection are required, by reason of the Cranium and the Brain underneath; fo alfo in those of the Joints, you must take all suitable Precaution, by large Bleeding, defensative Topics, spare Diet, and keeping up the Limb, to prevent the Afflux of Humour, more ready to fall down upon these more sensible Tendinous and Nervous Parts, taking especial Care that you are not deceived, mistaking the simple Contusion for a Luxarition; by which, like those Roguish Impostors, who call themselves Bone-setters, but are more properly Man-flayers, if not Murtherers, pulling and hawling the Limb already affected with Pain and Fluxion, instead of helping and relieving, you main the poor fuffering Patient, laying hereby Foundation for some Abscess and Fistulous Ulcer; ensuing afterwards with rotten Ligaments and Tendons, and if not a Cariofity on the Bones, which frequently falls out, at best of stiff and feeble Limbs, for their whole Lives after.

3. And Lastly, In the Contusions of the Trunk and Belly, called otherwise the Venters, your chief Recourse must be to the Physician, who, by Traumatic, Agglutinative, and Balsamic Prescriptions, such as were laid down in our Discourse of the Wounds of the said Parts, may contribute to the Cure: Some Forms of which, besides what are here directed, you may find in the Tract before referred to, which being diligently administered, in order

order to preserve the Fluidity of the Blood, and hinder its Stagnation, it has been also customary in extraordinary Contusions, to enwrap the Body, especially the bruised Parts, in the Skins of Animals hastily slea'd off, and apply'd with their Natural Heat, being renew'd for three or four times, at proper Intervals: To which Experiment, I must needs say, I had great Reason to impute the speedy Recovery of an Hypochondriac Gentleman, who had thrown himself from a Window two Story high, and lighting first on a Pent-house, fell thence upon a Stone Pavement, without Fracture or Luxation: But quitting this Subject, I come now to entertain you with my Account of Fractures.

The Word Fracture, as used by the Surgeons, and I think it is not so often by others, implies a Solution of the Continuity in the hard Parts of our Bodies, called the Bones, from some outward Violence offer'd thereunto, as by Falls, Blows, Jumping, Leaping, nay a Slip of the Foot upon a plain Floor, the Leg being thereby somehow distorted, and falling under the Weight of the Body above it, has been suffici-

ent to snap the Bones asunder.

The Rupture is, with some, of the like Import; but as Custom has appropriated the former to these Accidents of broken Bones, so by the latter is understood among the same Artists, a Breach or Rent in the Peritonaum, as we observed formerly in our Section of Wounds; where we acquainted you that both Hippocrates and Galen have given that Name, i. e. of Wounds, even to these Solutions, as well as those in the softer Parts.

But quitting controversial Disputes about Names, where we understand or know the thing fignified thereby, we shall stay only to inform you farther; that as those in the Flesh were differenc'd by their instrumental Cause, so the Solutions of these also,

from

The Fracture defu'd. from their Efficients, have had various Greek Appellations: Thus that made by a cutting Instrument, was called Tpavua, Vulnus; those by Erosion, Tspúsw, from a Worm of that Name, as before noticed; and those by Contusion, Kátasua; which last usually comprehends the rest, and the Applications to promote their Union, and engender a Callus about their broken Extremities, are thence named Catagmatica.

The Causes of Fractures we have already ob-Causes ferv'd to be some outward Violence, tho' the extraordinary Fragility of some Persons Bones beyond others, must arise from a Cause internal, such as their too great Siccity, or Lack of Oil consum'd by long Sickness or Old Age. The too frequent Use of Mercury, we are told, will render

these Parts brittle.

Marcellus Donatus reports, that a Person going Hist. 791 to throw the half of an Orange at his Companion in their Sport, by the meer Projection of his Arm, fractur'd the same; and before he was recover'd, putting his other out of Bed to reach his Chamber-Pot, broke that also; which he imputed to a Mercurial Unction he had lately undergone for the Lues he had long labour'd under: So that very probably that Disease itself, by vitiating the Juices of the Blood, might not a little contribute to the same, as may be inferr'd from the Texture of these Parts thereby destroy'd in the Spina and Exostosis.

Capivaccius acquaints us with another, who broke his Arm as he was throwing a Nut against the Pavement, in order to come at the Kernel: But the most surprising Instance of this Fragility, which I have heard of, is that recited by Hildanus, Cent. 2. Obs. 66. who there informs, that the Os Humeri, a large and strong Bone, was fractur'd in two

Places, by only drawing on a Glove.

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HIST. 82. On the other side, the Relation of Fernelius is as remarkable, of a Soldier, who, after a Fit of Sickness, had his Bones so mollify'd, that, like soft Wax, his Arms and Legs would bend any way without breaking, who was cured, as the same Author informs us, of this Missortune, by bathing in the Alum Water: But we shall now speak of the Differences of Fractures.

Division.

The general Division of Fractures, is into simple and compound; by the former meaning a Solution of the Bones without a Division of the Continuity in the Flesh or Skin above; by the latter, in both, or a Fracture complicate with a Wound in the outer

Coverings.

Now, tho' I think the fimple Fracture thus understood, when accompany'd with any dangerous Symptom, as Eryfipelas, Convulsion, Gangrene, and the like, may be properly enough said to be compounded, albeit there is no Breach in the outward Tegument, yet will I not find Fault with this general Division of the antient Practitioners, which still takes Place among us.

Of fimple Fractures there are divers, not now to mention those of the Cranium, which has some more peculiar to itself, as we shall observe when we come to speak of particular Fractures: The more usual I reckon the Transverse, the Oblique, the Longitudinal, the Semifracture, and the Fracture with Com-

minution.

General Diagnoflics. The Diagnostic Signs of which, especially those made transverse, oblique, and more particularly that with Comminution, are often discoverable to the naked Eye, upon the comparing one Limb with the other; when on the fractur'd Part, some Prominence on one Side, and Hollowness on the Side opposite, or an Inequality, is espy'd by an exact Surveyor: But a strict and prudent Handling of the

the broken Limb, enables us to make the best Judgment, not only as to its Reality, but of what Sort or Kind; for while the Limb is supported by an Assistant, if you press with your Hands up and down, bearing with one towards, with the other from you, both upwards, downwards and sideway, you will not only observe the Crushing of the Ends of the Bones, but continuing your Enquiry with your Fingers, unless the Bone be burry'd deep among the Muscles, as the Os Famoris in some corpulent and full Bodies, you will discover the Site of the Fracture, and Extent of the same, whether pointing obliquely under the Muscles and Skin above, or transverse or a-cross the Limb.

The Comminution will not bear this Scrutiny, nor requires it, since the very lifting up the same, puts the poor Patient on the most dire Complaint, through the shiver'd Angles of the Bones pricking the Muscular and Nervous Fibres, whilst the Limb itself makes a kind of Curve or Angle, upon such

Elevations.

The Fracture secundum Longitudinem, is rarely met with in Comparison with the other. I cannot say that in more than 20 Years (for the greatest Part of which Time I have feldom had fewer than four or five, of one Kind or other, at once under my Inspection) that I have met with more than two, that I could really think fuch. However, the Patient's Complaint throughout the whole Length of the Limb, with the unufual Fulness from one Extreme to the other, if the Cleft be not perceptible to the ftrict Impression of the Finger along the fame, together with its Inability, when the Leg or Thigh, to support the Trunk of the Body in the erect Posture thereof, without Complaint, give farther Jealoufy. And

And being now discoursing of the Diagnostics of Fractures in general, I cannot pass by unobserved, that vulgar Errour of the Patient and By-standers, who will not allow a Limb to be broken, whether Leg or Arm, if at the same Time they can move their Toes and Fingers; as if the Bones, which of themseves are immoveable, unassisted by the Muscles and their Tendons, and afford only Stability, were concerned immediately in voluntary Motion, which is the peculiar Function of those other Parts, when influenced by the Fluid of the Nerves.

On the other hand, fuch is their Incogitancy and Imprudence, that upon some Wrench or Distortion of the Tendinous Parts, by which fuch Motion is now render'd painful and difficult, you can hardly perswade but their Bones are broken: And unless at sometimes you countenance this their Preposession, which is much beneath a Man of Art. who regards his Honour and Reputation, they will not, without great Difficulty, be perswaded to confine, or keep up their sprained Limbs, as they ought, on Account, as they furmise, of so simple an Accident; little confidering fuch simple Sprains, as they term them, being at first neglected, or ignorantly treated, have ruined and lamed more than the real Fracture or broken Bones. And this for the Diagnostic.

General Prognoflics of Fractures.

The Prognostic of these Accidents is to be taken from their Figure, Situation and Cimplication: And thus the simple transverse Fracture is easier of Cure, and less hazardous than the oblique.

From their Site: So Fractures in or near unto the Joints, are more dangerous, and attended with worse Consequents, than when happening about the Middle of the Bones, or farther from their Extremities. Fractures also of the Cranium, or Skull, are never void of Danger; not so much as Fractures, but through the Vicinity

of the Membranes of the Brain, and the Brain itself underneath, with the dire Symptoms consequent to those Parts injur'd or hurt thereby: but of these more particularly, when we come to speak of the fractur'd Cranium.

hazardous, by reason of the adjoining Membrane of the Pleura, at such Times disturbed thereby,

and fubject to Inflammation.

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Fractures of the Os Femoris, happening especially on the upper Part, are also difficult to be replaced. and fecur'd therein; for that a Number of large Muscles so envelope this Bone, as to render the Reduction thereof troublesome, and to keep the Bones in their Places after fuch Reposition; fo that it will always behove the Artist at these Times. to be cautious in his Prognostic, or how he promises a compleat Cure, without that common Event of one Leg a little shorter than the other, and wanting the Heel of the Shooe to be raifed for fupplying this Defect of an equal Length: In the broken Thigh it being rare, let the Surgeon do the best he can, unless in Children, who often escape better, to find these Accidents terminate without fome Limping.

From their Complication, and thus all Fractures accompany'd with a Wound, and more especially those by Gun-shot or Fire Arms, are manifestly more dangerous than the simple, whether transverse or oblique: Also those attended with great Comusion, large Tumour, Instammation, Abscess, or the like, are much more hazardous, than where no such Sym-

ptoms supervene.

Lastly, The Fractures which happen to the Veneveal, Scorbutic, Hectic, Hydropic, or other Cachectic or Cachochymic Habits, are always worse, and more dangerous, than when befalling a better, firmer, or Vol. II. I sounder founder Temperament or Constitution. Also Fra-Etures of pregnant or great-bellied Women, are more difficultly united and confolidated than others. Hildanus tells us, he fpent to Months Time in at-

HIST. 83, tending a Woman with Child that broke her Leg. 84. before he could get a Callus to hold the Bones together: All which Time he was forced to bear her Clamours, whilst he did his utmost for her Recovery. The like Account he gives of another. where, after 23 Weeks, he found the Bones still loofe, through the nutritious Juices at these Times. as he rationally furmifed, being carry'd off from the other Parts to nourish the Fœtus. Come we now to the Cure of Fractures in general.

Cure of ratus.

In which I reckon two more principal Indicatiin general, ons, viz. The Reposition of the fractur'd Parts, and and first of their Retention when re-placed, till Nature, by the the simple Intervention of a Callus, has cemented their Extrethe Appa- mities: In order to which, I shall lay before the young Practitioner, the following Apparatus, which he is to fet by him in a large Dish, on a Stool or Table by the Bed-fide, that the fame may be more ready at hand: 1. A Plaister Compress, 2. a Defen-Sative Emplaster, 3. a Couple of Bolsters of Cloth, 4. a Roller, 5. Splints, 6. Tape. 7. A Bason of Oxycrate beat up cum Alb. Ovor. 8. A Pair of Sciffars. 9. 2 Penknife, 10. a Pin-cushion with Pins.

These being Pre-requisites for the Reduction of simple Fractures, at least what I found necessary in my own Practife, I shall deliver a few Words, by way of Explanation, concerning each of them.

Having before-hand examin'd the Fracture, and discover'd what Parts of the Bone protuberate, or are likely to do fo; let your Plaister Compress first recited, and prepar'd as we have formerly advised, be well fitted to the rising Part, that it may the more exactly compress the same, after the Redu-

Ction

ction of the Fracture, and prevent its starting up again: At the Time of taking this Survey, you may likewise observe the Compass of the Limb broken, with its Depth from an Inch or two below the upper Joint, to as many above the lower, supposing the Fracture near the Middle, whether of the Leg, Thigh, Wrist, or Shoulder-Bones; by which you may guess of what Length and Depth to shape your Defensative, prepar'd ex Diapalma, Bolo vero, Ol. Rosar. ac Aceto Vini, handsomly adapting the same in its Dimensions.

The Bolfters are to be prepar'd of fine foft Cloth, two or three times folded, of a Depth fuitable to your Plaister, rather deeper than otherwife, and of fuch Breadth, that being laid on each Side of the Limb, they may almost encompass the

fame.

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The Roller is to be double or fingle-headed, of Length and Breadth suitable to the Situation of the Fracture, and Compass of the Limb. The Antients used three separate Rollers for simple Fractures, whilst the modern Practitioners generally content themselves with one, and that single-headed. But in Fractures of the Joints, I have found sometimes the double-headed preserable, as more regularly compressing the fractur'd Parts, and retaining them in their proper Places, where there is no room for the Application of Splints, but only the Cloth Compress dipp'd in Oxycrate cum Alb. Ovor. and wrung out, which, after some Hours, growing hard and dry, in some measure supplies their Places.

The Splints which I prefer upon these Occasions, are those prepard by the Card-maker, for the Use of the Hot-presser and Packer, of pasted Paper, of which I was never without half a Dozen of Setts for the Wrist, Arm, Leg and Thigh, ready shaped to Limbs of several Sizes, and beat down at the

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Edges:

Edges; which fit much easier and more securely too, than the Sword-Scabbards used by some, or the flat Pastboards dipp'd in Posca at the Time of Using, and then fitted to the Parts.

These Splints are to be much of the same Depth with your Bolfters, but rather shorter, to prevent their Edges offending the Skin either above or below, of fuch Breadth, as that two may comprehend the Arm above the Wrift, three above the Elbow, of large or full grown People, as many for the Leg, and four for a Thigh.

The Tape is for tying your Splints close, beginning in the Middle, and then fastening one above and another below; for which and other Purpofes to be mentioned prefently, you are to provide your felf of feveral Yards, narrower or wider, as the Bulk of the Limb requires.

The Oxycrate is for dipping in your Cloth Bolsters, and sometimes your Bandage also, after expressing the Liquor, rolling up the one tight, and

laving the other spread out smooth thereby. The Use of the Pins I shall not enlarge on, being well enough known for fastening the End of the Rollers; nor yet of the Sciffars or Knife, which are always to be in Readiness: The first to cut off the Ends of the Tape, to rectify any thing amiss in the Compress or Bolsters; the latter, to remedy the too great Length or Breadth of the Splints, or shape them to the Parts for which they are intended.

This, as I have found necessary, was my own Apparatus, at these Times: And being thus provided for your Work, supposing the Leg fractur'd, the Patient laid carefully in his Bed, with the same resting on a soft Pillow, reaching from the Heel somewhat higher than the Ham, let your two Assistants, fitted for the Work both in Strength of Body as well as Presence of Mind, be placed one of them

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them at the Foot, the other at the Knee: The former with his Left Hand under the Heel, and all the Fingers of the Right on the Top of the Instep, the Thumb bearing against the Sole of the Foot; the latter with the Fingers of both about the Gartering below Knee underneath, with his Thumbs opposite on the Top of the Leg; this being the best Hold where the Fracture is near the Joint of the Ankle: But if in the Midst of the Leg, or higher up towards the Knee, the Gripe by your lower Assistant, may be made round the Small of the Leg, after the Manner as above, whilst a third Person supports the Heel, if there be Occasion.

Let these, I say, be so placed for their own Ease also, as that they may best continue in the stooping Posture, without wriggling or shifting the same,

till the Work of Reduction is dispatch'd.

Your Affiftants being thus fixed, you are to order the Limb gently and equally to be raifed by them from the Pillow, that you may have Liberty, with your Hand and Fingers, to examine all round about the Fracture: When having by fuch Enquiry fatisfy'd your felf therein, as whether transverse or oblique, of one or both Focils, let the Extension be begun by one, and the Counter-Extension, by the other, at the same Instant: The Leg having been before so put into their Hands, that the great Toe may be opposite, or in a direct Line to the Rotula or Knee-Pan. During their Extention, it behoves the Surgeon to have his Eyes, as we say, about him, as well as his Fingers, with which, when he finds the Extension sufficient to bring the fractur'd Extremities upon the Level, without shivering the fame, let him strait press down the rising or protuberating Parts into their proper Places, which he will find more readily to give Way, if, during the faid Extension, with the Palm of one Hand he

pull to him the Part depress'd, and with the other

thrusts from him that which is prominent.

This failing, if the Extenders are neither cramp'd nor tir'd, let him give Order for the Extension to be encreas'd both Ways, or at both Ends of the Limb, when again with his Hands encompassing the Fracture, let him strongly press together the divided Extremities, finking down the rifing Parts, and raising, as before, the depress d: And finding them hereby replaced, let him again strictly examine with his Fingers, and fee that he leave no Prominence or Inequality before he drefs up: As a farther Help to his Judgment at this Time, let the found Leg lie bare before him, that by exact Comparison, he may observe their Correspondence, which is truly necessary: Otherwise, if that Leg was bowed or crooked before the Hurt, you are not to alter the pristine Figure thereof; for, by attempting to make fuch Limbs strait, if you could accomplish the Work, your Patient would be little obliged, in that as much as you take away from the wonted Curve of fuch a Limb, however they might happen more fightly, yet fo much you would deprive them of their Stability or former Strength; the Extreme of the upper Bone now bearing, perhaps, not more than the one half upon their Base the lower; which is the like Injury to them, as your leaving a crooked Limb would be to one which before the Hurt receiv'd was strait."

But I forget your Extenders, who by this Time, not improbably, may be cramp'd in their Postures, as well in their Hands as Backs (which I have often been) in stooping to help you: Wherefore having finish'd the Reduction, to your own Satisfaction and the Approbation of the By-standers, who are sometimes proper Witnesses of the same, when your Patient, by some After-Irregularity, has displaced

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dific'd plac'd your Work. Let your Affiftants be encourag'd to hold out but a few Minutes longer, till your Dreffings are dispatch'd, which being all ready at the Bed-side, as we before gave Direction, or the Dish wherein they lie, held to you by a Servant, first lay on your Plaister Compress upon that Part which just before lay prominent, to prevent its rising; then gently drawing your Defensative under the Limb, bring up the two Ends thereof somewhat strait, which may lap over an Inch; for the better Security of the Compress, and Adhesion of your Plaister: Over this you are to take two or three Turns with your Roller, first a-cross the fractur'd Part, for staying of the Bones; when having spent about one half, both above and below, lay on your Bolfers of Cloth wrung out of Oxycrate O Alb. Ov. on each Side, or at the Top and Botcom, as the Situation of the fractur d Bone, and the bearing Parts thereof shall require, and continue over these, so many Circumvolutions of the Remainder of your Roller, as you shall find expedient or needful, always a little straitening when you come upon the Fracture, and turning your faid Bandage at the rising Part or Calf of the Leg, for the Imoother and more even Management thereof; which being past to the Gartering-Place below the Knee, you may come down again with the Remainder of your Roller, and fasten about the Midst of the Limb: When, with all necessary Dispatch for the Ease of your Assistants, apply next of all your Splints; the first to bear upon the Compress, the fecond fomewhat opposite, and the third or fourth, if Occasion so require, in the Interspaces, which, fewer or more, are to be of fuch Compais, as leaving near a Finger's Breadth Distance between each other, they may furround the broken Limb. over the Dreffings apply'd as afore-mention'd.

When I said the second Splint must lie opposite to the first, I meant not in its whole Width, but that a Part thereof should bear against the Fra-Eture, as a Counter-pressure to the first: The third being so placed, where there is no more required (which there seldom is if these are aright ordered) that together at an equal Distance, they

may encompass the Leg, as above recited.

Next, paffing under your first Tape in the Middle, whilst some other Attendant secures, with their Fingers, the Splints as you had placed them, you are to tie them close; and making a Bow-Knot, cut off the Ends of the Tape: Proceeding in like manner to make two other Ligatures above and below, which being finish'd, and your Pillowlaid smooth, let your Extenders, who by this Time are willing to be releas'd, equally and gently finking their Hands together, lay down the Limb thereon, with the great Toe still answering the Top of the Knee; when bringing the Sides of the Pillow close with three Tapes more, passed before-hand underneath at equal Spaces, tie over the same, having first placed a little quilted Pad hollow'd for the Reception of the Heel, which is a Part, by Reason of its Tendon long compress'd, as much complain'd of, sometimes more, than the fractur'd Parts themselves: And I have known not only Inflammation, but Mortification sometimes, to have enfued, for Want of fuch Provision and timely Overlight; which has created very much Diffurbance to the Patient, and great Trouble to the Surgeon, to get whole again.

A Strap of Cloth is now to be cut, which we call the Bridle; and which, before the Ends of the Pillow are pinn'd, or otherwise fasten'd together with Tapes sew'd on for that Purpose, is to be placed with its Middle against the Sole of the Foot, and

the

the two Ends interchangeably passed over the Top of the Instep, then pin'd to the Sides of the Pillow, for securing a good Posture of the Foot, from whence we judge somewhat about that of the Fracture.

On the Sides of this Pillow are laid the Junks, which with the Cradle we mention'd not among the Apparatus, because the Limb being now safely reposed, and the broken Bones secur'd, you have Leisure to provide these Necessaries, altho' they

also ought to be at hand.

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These Junks are made commonly of two small Bundles of Rushes, sowed up in Linnen-Cloath, of about an Ell long each, and as thick as the Small of the Leg: Their Use being to support the Sides of the Pillow, and to keep the same, with the Leg therein, from inclining to either Side.

Lastly the Cradle, which is to bear off the Weight of the Bed-Cloaths; being made of 3 or 4 semi-circular Hoops, let into two square Pieces of Wood, of a Yard long, somewhat wider at that End next the Knee, and narrower towards the Foot, of such Breadth as may take in both the

Pillow and Junks aforefaid.

Instead of these, when I had much of this Business on my hands, I have wrapped up a couple of
small Sheets, or two Table-Cloths, or, for want
thereof, a sufficient Number of Towels, Napkins
or the like, and rowiling them up hard, placed
them on each Side the Pillow, to serve as Junks:
And to supply that of the Cradle, I thrust a Squere
through the Blanket at the Feet of the Bed, just
over the Patient's Toes, fastening the same with
a Tape or Piece of Packthread to the CurtainRod, which kept the Cloaths at such Distance,
as to secure both Foot and Toes from being pressecure both Foot and Toes from being pres-

Covering, whether Rugg or Quilt, I fasten'd them in like manner at the Bed's Feet, to keep out the Cold.

I hope it will not be expected, that I should give any other Specimen of the Apparatus for, or Manner of reducing simple Fractures in general; fince what has been already laid down will ferve for those of the Thigh, as also for the Arm, whether above or below the Elbow, with little Variation; in this latter there being feldom Occasion to confine the Patient to his Bed, fince by placing the finall Pillow in a Napkin, reaching from the Fingers Ends to the Cubit, the Wrist is well enough Supported: But if the Fracture is above the Cubit. as on the Os Humori, the safest Way is for him to keep in Bed, at least for some Days, with a Pillow lying along the Outside of the Arm, for its fleady Support, which at these times is not so well provided for, in the erect Posture, as by the Horizontal, in that below.

Having reduc'd your Fracture, unless you had bled your Patient before, it is very expedient, that you take off such Quantity as the Age and other Circumstances may allow, whereby to lessen the Afflux of Humour, and keep under the Symptomatic Fever usually consequent upon these Acdents, and more especially in some morbid or diseased Habits, also those Fractures which are at-

tended with great Contufion.

As to his Diet, let the same be like that directed for wounded Persons heretofore, viz. Panada, Water and Barley-Gruel, Chicken or small Mutton and Veal-Broths, avoiding strong Drink and Wine, which Abstinence must be continued at least for the first Week, till the Fever and Fluxion go off; afterwards a greater Liberty may be allow'd, such

as Flesh easily digested, whether Chick, Rabbit. Lamb or Veal, to those used to feed well; as also strong Drink and Wine, but sparingly, to the Good-Fellows: By which a fuitable Chyle may be generated, from whence a fufficient Stock of nutritive Juice, to Supply Materials for that Expence of the same, thrown off by the Pores at the Extremities of the fractur'd Parts, for the Genera-

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And here give me leave to observe, what I formerly remark'd, in discoursing of the true Herma, that the Practice of giving strong Jellies of Calves-Feet, Cow-Heel, Trotters and the like, and the constant feeding upon these Extremitates Animalium, is a doubtful Practice, being liable, by their viscid Particles, to obstruct the Lasteals and Pores they are to pass, before they are assimulated, especially at a time when no Exercise can be used for their farther Attrition, or grinding into fuch Molicula, as may fit them not only for Progression to the Parts, but to the Pores also where they are requir'd: Or in other Words, I think, these slimy and gelatinous Foods, thus constantly taken, not so well adapted, as by admixing between whiles, an agreeable Juice prepar'd by the Stomach, of the Musculous Parts, or Flesh it self of some of those Animals.

Besides their common Diet, by way of Nourishment, where the Callus is long in forming, our Authors sometimes prescribe certain Medicaments to be used, both outwardly and inwardly, unto fome of which they are ready to attribute a peculiar Faculty of engendring the same: And Catagma. among these, the Precedence, Ithink, is given totics, among that famed Catagmatic, the Ostrites, called other-which the wife Ofteocolla; of which the experienced Hildanus and its Dewriteth thus, in his 3. Cent. and 90. Obf. foription. " In

"In a large Champain and Sandy Ground, near " Darmstad, in Germany, I found many of these "Stones, fome of them above, and others under "the Ground, the former lying exposed to the "Air, feem to loofe much, if not all their gluti-" nating Property, by which they become brittle, "hard and whitish; whereas those taken under "the Surface, where I found them sometimes 2 or 4 3 Foot deep, are fofter, browner and friable, as " also more viscous and bituminous: But as the "Ground is Sandy where they lye, upon frequent "Showers falling; their Covering is in time wash'd " off, and they then lye expos'd above Ground, "where, by the Heat of the Sun, they are not " only whiten'd and made hard, but their Gluti-" nosity, as before observed, very much, if not en-" tirely deftroy'd, having nothing but their terre-"ftrious Parts remaining: Some of them arise " from a Basis with Shoots, as Branches from the "Roots of Trees; some of them I found Solid, " others Fiftulous, in which a foft, but blackish or "dirty Pith was observable, somewhat resembling the Marrow of Bones:" From which our Author conjectures the first Hint might be taken of their Bone-cementing Property.

The Accounts from Maubiolus and Josephus Quer-

cetanus, agree also with the foregoing, viz.

"There are found in that Tract of the Rhine, which the Germans call Bergstrass, near the Town of Darmstad, about two Miles from the Rhine, certain Stones, Oc. The Germans call them Bien"bruch, for in 4 or 5 Days time, a broken Bone is fasten'd and join'd together by their Use."

Hier. 85. Now altho' our famous Practitioner above-men86 tion'd, gives no great Credit to the vulgar Relations of the Vertues of these Stones, yet he assures
us, he had found great Service, as well from their
outward

outward as inward Use, in forwarding the Agglutination of a broken Arm, of a very antient and decripid Person, where he found the Callus loose at a Month's end: And that in a fractur'd Thigh of another Person, he was forc'd to leave off its Use, by reason of the super-abounding Callus occasion'd, as he believ'd, thereby.

To the first of these he gave daily 2 Drams of the following Powder, in a Mess of good Flesh-

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R. Lapidis Ossifragi sive Osteocolla diligenter prap. 31. Cinnamom. Elect. 3iij. Saechar. alb. 3ij. m. f. Pulvis tenuis.

Twice a-Day he also used the following Liniment.

R. Ol. Lumbric. Zij. Ol. Gran, Junip. Zij. Suc. Lumbric. Zj. m. pro Litu.

After which this Emplaster was worn upon the Place.

Re Empl. Vigonis ad Fracturas Ossium Zij. Oxycroc. Zss. Lapid. Osteocol. pp. Ziss.

Lumbric. terrest. in Subtilis: Pulv. Redact. 3j. cum q. f. Ol. Lumbric. f. Emplast.

To the same End likewise, other Catagmatic Emplasters are prepar'd ex Pulv. Rad. de Symphito, Bistort. Aristoloch. Ossium Human. and the Ostrites aforesaid, made up with the Resina vel Terebinth. ven.

As to my own Opinion of the Bone-Binder in Cases of Diarrhaa's, or other Fluxes accompanying these Accidents, where the Texture of the Blood

is weaken'd by Sickness, or where there is Colliquation otherways attending, and the nutritious Particles carry'd off either in profuse Sweats or Loosnesses, I look upon this Medicine as an excellent Agglutinative, or good Styptic, if it can be procur'd true and genuine, chosen by our Author's Advice from under-ground, and carefully kept from the Air; And I would recommend it to be given as above, with a Decoction of some of those Vulneraries we recited in our Third Section, discoursing, as I have already hinted, concerning Hernia.

But these Occasions do not often happen, that we should deviate from the common Regimen; and yet I have met with one so very remarkable upon this Account, that I shall think it worth while to

inform you thereof.

A Gentleman's Coachman, then of St. Hellen's HIST. 87. Parish, within Bishopsgate, by a Kick of one of the Horses, had the Humerus broke off in the Middle, betwixt the Cubit and the Top articulating with the Scapula: Upon which, after the Redu-Etion, I continued him in his Bed, and at ten Days end, finding all Things appear well for the Time, I dress'd up again with a mild Cerate, instead of the Defensative I had apply'd at the first Dressing, still persuading him to keep his Bed, yet granting a larger Liberty in his Diet: But at 3 Weeks end, whether from any Error therein committed, or getting cold in his Rifing, altho' I rather think it was an Effect of his ill Habit of Body, or scorbutic Discrass of the Juices of his Blood, he fell into a Flux of the Belly; which, notwithstanding all Endeavours by an Elect. ex Cont. Rof. Conf. Fracast. Pulv. Rhei Torrefact. Coral. pp. with the Decoct. C. C. for his Drink, and other Methods preferib'd by his Phylician, fo prevented our Endeavours

wours to unite and confirm the Callus; that at 8 Weeks end, (a sufficient Term for consolidating the largest Bone in a humane Body) when we thought all safe, one Evening, as he was help'd off with the Wastcoat-Sleeve on that Side, it seem'd to him that his Arm was again falling to pieces: However, being still kept tight and close by the Splints and Bandage, he went to bed; and the next Morning, throwing his Cloaths over his Shoulders, in great Surprize came to my House, where I had no sooner loosen'd the Dressings, but I found plainly the Callus was entirely dissolved, the Arm swinging back and forwards, as if there never had been any Stay or Stability besides the Muscles.

I was indeed as much alarm'd my self, and did all in my Power to retrieve the poor Fellow's Misfortune, dressing up with a Catagmatic Empl. of the Stypt. Paracels. Diapalm. ad Hern. with some of the conglutinating Species melted down therewith, directing at the same time the Pulv. Ofteocol. cum Syr.

de Symphito, for some Weeks longer.

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At length, finding all to little of no Purpose, his Master, Mr. Prideaux, sent him to St. Thomas's; where, after other inessectual Attempts for his Recovery, I understood, that Mr. Rydout, whose Patient he was, whip'd off the useless Limb, in the Interstice of the broken Extremities, without more to do; and, healing up the Stump, dismiss'd him: His Master procuring for him afterwards a Letter-Carrier's Place, by which he was substifted several Years, till his Death.

In ancient People these Accidents are less ad-Hist. 88, mirable: I remember I was once desir'd to look upon an old Alms-Woman, upwards of 86 Years, who, at 3 Months end, had a fractur'd Thigh as loose as at the first Day of the Misfortune, and continued so many Months, I think I might say Years,

Years, afterwards, complaining of no Pain, lying weak and feeble only as a Bed-rid Person: But in so young a Subject as the former, I must confess,

I never observ'd the like Consequence.

We had here a fair Opportunity of trying the Ofteocolla, which was also exhibited; as I was inform'd, in large Quantity in the House, but which, as other conglutinating and corroborating Remidies try'd before; was fruitles: The Flux he was at first seiz'd with, having so entirely dissolv'd the Cement, and wasted so much of the nutritious Juice, that the Blood being render'd poor, and deprived of its Balsam, the Extremities of the Bony Fibres now also grown rigid, and rendering those Particles unassimulable, Nature was unable to consolidate the same: So that an Atrophy of the Limb ensuing, the Surgeon had no other Trouble, than with his Knife to separate the useless Part from the rest of the Arm.

How far this singular Operation was justifiable I shall not question, who, for my own part, do not think it was Male-Practice, there being no Probability, after so long Time and so many inessectual Experiments, of a Callus ever intervening, and the Hand being rather burthensome under the present Circumstances, than any way service-

able.

The Historian, or rather, (for so I think I may venture to call him) the Tell-Tale, Pliny, has several fabulous Stories concerning a fort of Sponge, found near the Waters of the Alps, which, if we may believe him, will do still greater Wonders, in sew Hours consolidating the Ends of a broken Bone; but quitting this Digression.

When you have reduc'd the Fracture, and the next Day coming to view the Limb, if you find a small Tumour, both above and below your Splints,

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tis an Indication of your Bandage being rightly adapted; for if there appears none at all, tis an Argument the same was too flack; it being rare, even in the most simple Fracture, and the best Habit of Body, but that some little Tumefaction will necessarily arise, from the Contusion accompanying the Hurt; and the Ligature, tho' moderately strait, somewhat intercepting the Freedom of Circulation: However, this is eafily discover'd, by the Looliess of your Roller, which must then, (tho' a very improper Time) be undone and made up tighter, at least the Splints over the same, for Security of the broken Bones, are to be ty'd faster together with the Tapes, till you come to undo all at your fecond Dreffing, which at fuch times must be fooner than otherwise Occasion calls for.

On the other hand, when you find the faid Tumour fo large, either at the Top or Bottom, and the Folds of your Roller as it were buried in the same, so that there appears Danger of a Gangrene by the Stagnation, you must not only forthwith loofen the Tapes of your Splints, particularly when they have promoted fuch Tumefaction by their Tightness, but with your Scissars, strong enough for that Purpose, cut through the Folds of your faid Roller, especially at the Top and Bottom, where they are found to gird upon the Flesh: Afterwards embrocating cum Ol. Rofar. vel Ungt. Sambuc, and fastening the former, but more gently, with your Pillow as before, visiting your Patient again at Night, or at farthest the next Morning; when if you find the Swelling somewhat relaxed, or not to encrease upon you, all may go well as yet; but if the same happen to be inlarged, with Vesications or Blisters round about, your Patient beginning to complain of a Numbnels throughout the Limb, you must immediately let all fly, taking Vol. II.

Care however to fecure as fleady a Position of the Limb as possible, unto which you have now given fuch Liberty, embrocating all about as before, but without diffurbing or moving the fame; and if there be Vesications let them be snip d, dressing them up with your Digestive, and either rolling up again more easily, if the Fracture will allow so early raising up or moving the Limb, or contenting your felf with your Cloth-Compresses, and your Splints ty'd close for a few Days, till the Symptoms remit; or, which may be more convenient, changing your first Bandage for the Eighteen-tail'd One, (to be describ'd presently) which at such times, where there is Necessity for a frequent Inspection of the Member, is full out as necessary as for the Compound Fracture, giving the least Disturbance to the broken Bones.

. But when your Patient remains eafy, and the Bandage fuch as neither firaitens fo much as to impede the Circulation, nor is yet so loose as to hazard the starting of the fractur'd Extremities. having daily a watchful Eye upon the Limb, and continuing your Embrocation above and below the Binding, the Tumour still so requiring, being also fatisfy'd, that your Bones were at first rightly placed, or conjoined in the Reduction, you need not be in hafte to open or take off the Plaister, till the Callus, beginning to form, will fuffer more fafely the raising up the Limb, at your second Dressing. which, however cautious or careful you may be, will give some Trouble or Disquier thereunto; and therefore, upon these Regards, or under the present Circumstances, altho' the Patient may be perhaps importunate for the same, as fancying he may thereby be forwarded in his Cure, and otherwife neglected; yet when I have told him it was Rest only must essect the same, and that by the too fudden

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fudden raising the Limb from its Support underneath, there might be Danger of undoing our Work, I have protracted this fecond Opening at least for a Week or ten Days: Much longer I think it should not be delay'd, lest some Bearing or Protuberance happening by the starting up of the Bone, and the Callus beginning now to stiffen, it will be more difficult to rectify this or any other Error committed-fince, or over-feen at first; and indeed, if by any Accident of Convulsion or Starting, especially in Sleep, which is customary thro the diffurb'd Phantafy at fuch times, or by some Unruliness of your Patient when awake, you have any Jealoufy of fuch Misfortune fallen out, it will not be fafe to defer this Opening fo long, but after 3 or 4 Days, under these Conditions, it may be requisite for you to supervise your Work, diligently and carefully to remove your first Applications, and, after strict Examination, to rectify what you find amiss, lest nunc, aut nunquam, should be the Time of your so doing, or in the which you are to make a found Man or a Cripple.

The Apparatus, for your second Dressing, is little differing from that at first, unless that there are fewer Things now wanted; the fame Compress and Bulfters, Splints also and Tapes serving again; nor have you always need of the Posca or Oxycratum; but the Roller which was then dip'd therein, and thereby grown stubborn, or happening to be clip'd for relieving the Parts tumify'd, must be chang'd. for a fresh one; and your Defensative for a Cerate of two Parts, Diapalma with one of the Stiptic. Paracelf. adding a little ad Herniam, with which having dress'd up as at the first Time, you are to defer your next Opening, as you fee Occasion, for a Week or ten Days longer, if not twelve; when your Cerate may be still warmer, especially in cold K 2

Weather, of equal Parts of the faid Emplasters. or in cold Complexions and antient People, two Parts of the Stiptic. one Diapalm. and ad Hern. as aforefaid: In proportioning which, I would always advise, that you have regard to your Patient's Temper or Habit, either hot or cold, or dry and moift, as well as Seasons of the Year; otherwife, if you keep the same constant Method, you will meet with those whose Skin will not bear the least Proportion of the Gums, without bringing forth a Heat or Puffules, attended with unfufferable Itching, and oftentimes Excoriations, at which 'Fimes, or in which Constitutions, I have been forced-either to continue the Defensative through the Course of the Cure, or mixing a very small Quantity of the Paracelfus Plaister therewith, as I found they could dispence with the same.

The Summer and Winter Seasons you will find also to require a various Application: In the very cold Weather, those Persons bearing that Cerate

which they cannot fuffer in the hot.

Time of Confinement in Fractures.

As to the Time of confining Persons to their Beds, under these Circumstances, there can be none precifely limited, so much depending on the Condition of the Fracture, the Season of the Year, the Age of the Patient, together with the Weakness or Strength and Vigour of Constitution, with fome other Circumstances, as we observed in our Account of the Prognostics of these Accidents in general: So that 5 or 6 Weeks will be found as short a Time, in some untoward Hurts of this Kind. and in some aged and diseased Patients, as 3 or 4 in the simple Fractures of the more youthful and robust or strong; a Callus growing as firm at the Month's end in the latter, as at 6 Weeks, or perhaps 2 Months, in the former; fo that I always esteem'd it an Error, if it be one, on the right Side, radias

Side, to keep my Patients in Bed, how well foever Matters might appear, a Week, at least some Days, beyond the Month, than to take them up so much short of that common Stage; and however some would complain of hard or unkind. Usage on this Account, yet in a Fracture of both Focils of the Leg, I scarce ever suffer a them (tho perhaps they have been allowed to sit up therein 3 or 4 Days sooner) to rise out of Bed, unless at 5 Weeks end; or if the Thigh, at six, the soonest; in some Cases I have prevailed for their Consinement therein a Week longer, and I am satisfy d they far'd the better for so doing.

To ease their Backs upon Occasion, and to give Liberty to the Bed-Pan, I generally order'd a couple of strong Hooks to be drove into the Joices over-head, whence a Cord or Rope being let down through the Tester over his Breast, and a Stick fasten'd a-cross, with his Hands upon the same, he has been able to raise his Body upon such

Occasions.

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But farther, if any Accident, as Phlegmon, Ery-Accidents spelas, Gangrene or Sphacelus, which are sometimes Fractures occasion'd by the Fracture it self, at others by the in general Neglect or Ignorance of the Surgeon, not obviating the same in time, should happen to fall out, you are to proceed as in those Cases we have directed in our Discourse of Tumours; placing the Leg in the same Cradle, and for the readier coming with your Medicines at the Part, using also the like Bandage as for the Compound Fracture, to be described next.

The Oedematous Swellings accompanying these Casualties, at the first sitting up, or presently after upon setting the Foot to the Ground, usually wear off after the wonted Exercise continued for some time: However, where there is a Redun-

dance dance

dancy of the pitultous Humours heap'd up in the Blood, the Callus being fully confirm'd, the same are gently to be purged off with some of the Phlegmagegues, directed heretofore for Oedema: embrocating, or rather bathing, with the Camphorated Spirit diluted with Aq. Calcis; keeping to aftrict drying Diet, and, if there be found Occasion, fitting the Limb with a Strait-Stocking.

Of Compound Fractures.

Of the Compound Fracture.

We come now to the Compound Fracture, in the vulgar Acceptation of the Word, in which the Apparatus is different from that of the Simple One, in as much as that you have also a Wound to look after and provide for, in such Manner also as may give the least Disturbance to the broken Bones.

Wherefore having a Dish ready, as before, that may hold all your Dressings, and examin'd the Condition of your Wound, as also that of your Fracture; first let your dry Dressings be prepar'd of foft Dossils or Pledgirs of Lint, to lye next the Bone where the same is like to remain uncover'd, whilst others of both Sorts are armed with your Digestive ex Terebinth. cum Vitel. Ov. or the Liniment of Arceus, no Basilicon being allow'd near a bare Bone, on account of its Unctuolity or greafy Nature; also a Pledgit of the same, large enough to cover the whole Surface of the Wound, with a Panniken, in which fome Balf. Tereb. and the aforesaid Liniment may be melted down together, wherein to dip your Dossils as there shall happen to be Occasion: The next your defensative Plaister, as for the simple Fracture, large enough to comprehend the Limb, as formerly prescrib'd, thro which, where it lies opposite to the Wound,

you are to cut a Hole big enough to come at the Tame, at the Time of dreffing, without removing the rest, or disturbing the Fracture: Then your Cloth-Bolfters also, as before; but now observe, that inflead of your fingle or double-headed Rol-Ier, you are to take 3 Pieces of old Cloth, of like Sort with that they were cut out of, all near of the same Size, the outermost being somewhat the longest, about half a Yard in Depth, and 3 Quarters wide, more or less in Proportion to that of the Limb, in which, as they lye exactly spread over each other, you make a Slit with your Sciffars in two several Places, and at equal Distance, on both Sides opposite each to its Correspondent, and fo far towards the Middle as to leave little more than a Hand's-Breadth undivided, where the Back-Part of the Leg is to rest: For your easier Conception whereof, I have here delineated the Shape of one of them, which, from fo many Ends remaining, viz. 9 on each Side of the 3 Cloths thus laid upon each other, is call'd by some the Eighteen-Tail Bandage.



The Splints, where there is Room for them, with the Tapes, as before: The Pillow less and thinner, because in the Room of the common Cradle, the same is to be put into a Case or Box, in which the Leg is placed, with the two Sides or Wings to be let down at Pleasure by their Hinges, as does the Foot-Board to keep off the Cloaths, and this for the easier coming at the Wounds, as to which still K 4

farther Improvement may be made to answer the feveral Exigencies, as the ingenious Artist may direct.

For a Compound Fracture with a large Wound on the Gastrocnemius, I once order'd a double-bottom Board for such a Box, of a Piece of thin Wainfeot, in which a Hole was cut so large, as that thro the same I could apply my Dressing to the Wound, which Board was kept slung with Tapes, and by means of a Pully above, drawn up at the Time of Dressing to such Heighth as was requir'd, and after let down again into the Case, without the least Disturbance to the broken Bone, which it must otherwise, how carefully soever ma-

nag'd, been subjected to; but proceeding.

When you are thus furnish'd for the Work. and your Patient laid in his Bed, where, upon these Accidents, he is sometimes like to continue for feveral Months, you are, as before, to order your Extenders gently to begin their Work, for fear of exciting Convulsion or other dangerous Symptom, and the Limb being on the Stretch, you are with your Finger, where the Wound admits, carefully to explore the Condition of the Fracture. or finding some Parts of the same protruded thro? the musculous Flesh and Skin, in such manner pointing, that having fruitlesly attempted to return the same into its proper Place, with a small Cupital. or the Watchmakers Saw, you must take off such Fragment thus lying in the Way, replacing the reft.

Farther, if any Parts of the Bone are so shiver'd as to lye loose in, and pricking of the Flesh, you are to take them out with your Forceps, finding they will give way, and may be easily extracted; otherwise if the Smalness of the Wound be the Occasion that you can neither introduce the Part protruded, nor draw forth those separated within, you are to dilate the Wound, in such Manner as may facilitate either Operation.

And thus, when by the due Care of the Extenders, together with your own, you have replaced the Fracture, you are next and immediately to fecure the Bones, which shall after happen to be exposed to the same, from the Air, with your dry Lint, filling the rest of the Wound with your Digestive, where the Flux of Blood is inconsiderable; otherwise some Stiptic Application, as the same shall require: Then encompassing the Limb with your Defensative, with the Perforation therein against the Wound, your Bandage before orderly plac'd underneath, upon the Pillow, let the Leg. where there was Necessity for raising it up, be gently laid down: The Extension not yet entirely remitted, for Security of the Bones in their Places, whilst you are dressing up, and having fix'd your Bulfters on each Side, you are to bring one of the lower Tails overthwart, tucking it a little under by way of fastening, on the Side opposite; at the same time take up its Correspondent, and bringing it over the contrary Way, fasten it in like manner where you took up the first; then proceed to the Middle one and its opposite as with the former, and so to the uppermost, when coming down again take up the lowermost Lappit of the fecond Cloth, and having thus dispatch'd all 3 in that Rank, conclude with those that are undermost or nearest to the Pillow, still observing as you bring each of them a-cross or over, that you stay with the Fingers of your other Hand, that Side of the Cloth you are pulling from, so that the undivided Part thereof may keep the same Situation underneath, or remain in the Middle, straining each Fold, but but with great Caution, before you make the Tuck.

When you have now finish'd your Bandage, your Splints are to be apply'd in such manner that the Wound may be the least offended, either by their Sides or Extremes.

Lastly, the Pillow must be ty'd round with the Tape or Filleting, before also convey'd under the same for such Purpose, and the Wings or Sides of the Case, as well as the Foot-board are to be raised, that the inclosed Member may rest secure from the Coverings of the Bed: The chief Care being now to keep all still and quiet, with the Fracture unmolested, the perhaps you are daily obliged to inspect the Wound, which being digested, you must hasten Incarnation, where the Periosteum is not too much torn, or that the Bone, by being long ex-

posed, is not also tainted or corrupted.

But if you find an Exfoliation unavoidable, or that some Part must of Necessity come away before you can cure the Wound: Let your dry Dressings, as at first, be still continued to the same, as, after Digestion, to the Wound it self, for avoiding of a Fungus: Proceeding now, as we have already directed for the Carious Ulcer, but with this Difference, that before your Callus is formed, none of your strong Desquammatories, neither yet the Cautery, are to be apply'd, for fear of Injury to the same, or exciting some new Symptom, as Fever, Inflammation, Spasm, or the like: But I have already acquainted you, when speaking of the Wounds of the Head with a bare Cranium, it does not absolutely follow as an unavoidable Confequence, that in others, happening after this Way to be uncover'd, there must ensue a Desquammation; fince I have feen feveral, which after Reduction, being defended by the musculous Flesh, and artfully

artfully manag'd, to have united without Scaling. where the Wound has incarn'd and firmly cicatris'd, with little more Trouble than if the Bone

had receiv'd no Injury.

But where it falls out otherwise, or the Case is fuch as that by means of great Loss of Substance. Abscess or Apostemation, the Bone lying long expos'd. is tainted thereby, you can't expect at fuch Times so easily to accomplish the Work: At which Times, dreffing as just now directed, you must wait till Nature, separating the corrupt from the found Parts. throws off the same, when the Wound with little Difficulty will after, if nothing obstructs, admit of

healing.

As for what regards the Regimen, in respect of the Non-Nat. but more particularly Diet, you are to be stricter than you were in the Simple Fracture. or as we directed for Persons dangerously wounded, so here likewise it must be tenuis, if not tenuisfima, at least for some Time; forbidding Flesh, strong Drink, and Wine, in order to prevent the Flux of Humours, to which, thro the great Pain attending, these Hurts are very prone, and by which, Fevers, Inflammations and Abscesses are firred up, one after another at sometimes, to the great Disturbance of the broken Bones, Disquiet to the Patient, and Vexation of the Surgeon; all which are likewife frequently owing to some small Fragments or Shivers of Bones, irritating the Fibres, which, as before remark'd, at the Time of Reduction, are carefully to be inspected and removed,

Of Fractures with Comminution,

Fractures with Comminution of the Bone, either Fractures with Comwith or without a Wound, when the same are very minution of great, and the Bones splinter'd, or together with the Bone.

the Flesh crush'd to pieces, as by the Wheel of a loaded Waggon or Cart, the Fall of a Pipe of Wine, Hogshead of Sugar, or the like, slipping from the Pullies, or out of a Crane, as sometimes happens on the Keys by the Waterfide, or Merchants Ware-Houses: These Cases are always of the most dangerous Consequence, and 'tis but seldom that there is any great Prospect of saving the Limb: Wherefore it will behove you, whilft the Accident is fresh, or before the Patient is tir'd out with Pain, or thrown into Convulsion, to call in fome of the antient Masters, or other judicious Persons, as the Rules of that worshipful Company have appointed, with whom to confult; and perceiving a Necessity, as we told you, when speaking of Wounds where great Portions of the Muscles were contus'd, mortify'd, or torn in a manner quite away, to haften Amoutation or cutting off the Limb: But if you have a good Habit of Body to do with, and the Splintering not very great, nor the fleshy Parts too much contus'd or lacerated, if there be a Wound, you may probably thro' the same remove such Shivers as are most likely to create Trouble, lying in the Way, as we have already observed: Or if not, finding any pointed ones under your Fingures, pricking against the Flesh or Skin, you may make one, to disingage them; afterwards as artfully as you can replacing the rest, and reducing them into as good Figure as the Fracture will allow, proceeding as we have advised for other Compound Ones: When it may fall out, even beyond your own and your Patient's Expectation, a Callus intervening after sometime, cements the broken Parts; and however ill shapen the Leg may happen to be, as, do what you can (where Apostemations ensue one upon another requiring to be dilated, by which the fractur'd Bones gre

are disturbed, and render'd foul, or great Pieces thereof are forced to be removed) you can't sometimes prevent: Yet will the same for the most part, when assisted with Art, be better able to bear a Share in supporting the Body, than a wooden one.

A poor old Man, thrown down by a H157.89. Horfe, as he was croffing the Kennel, had the Wheel of a loaded Waggon passed over his Leg, which in a manner shiver d the Bones to Pieces, several pointed Particles lying out of his

Stocking.

Being from Home at the Time of this Accident. two others had been fent for, who, either doubtful how they were to be fatisfy'd, or difmay'd at the fad Object, withdrew and declin'd meddling: Upon my Return, some reputable Persons came to me, to inform me of this Misfortune, and defire my Affiftance: Upon which I took with me one of the young Surgeons who had been there some Hours before, and examining the Nature of. the Fracture, gave instantly my Opinion that the Case requir'd immediate Amputation. Yet, confidering his Age, above Sixty, I could give little Hopes of Success from the same; and was therefore, as in all fuch doubtful Cases I have been, willing that the Patient should rather desire it of us, at least give his hearty Consent thereto, after his Cafe had been justly stated: But the old Gentleman earnestly begg'd, if there was no other Remedy, that we would let him die of his broken Leg, or the Symptoms likely to enfue quickly upon the same, than to have so poor a Chance, as he term'd it, we could warrant of his furviving the Difmembering. Upon which, I then proposed his being fent to one of the Hospitals; but that being scarce practicable before next Day, and the Came Persons interceding that I would engage there-

in, believing also it would not be a Work of more than two or three Days, I order'd my Affiftant to get ready the Customary Apparatus above described: Whilst with my Fingers, as the Leg lay upon a Pillow in his Bed, I took out of the Wounds feveral loofe Splinters; after which directing a gentle Extension, as the Limb still lay along, for on the least raising up it fell all to Pieces, I placed the Remainder, with both my Hands, in as good a Posture as I could, but perceiv'd yet a large pointing Portion of the Tibia thrufting out, (which I believe was at first owing to a Want of due Care in his Removal from the Place he got his Hurt, to his Habitation) would not be depress'd, I was therefore forced to faw off the fame before I could put the Member into any tolerable Figure.

Having done all I could in the Reduction, I dress'd up the Wounds with warm Liniment, large Pledgits of Tow, first faced therewith, being dipp'd in some more of the same melted Medicine, quicken'd with a small Portion of the Ol. Tereb. and over all a Cataplasm of Theriaca Lond. then bringing over the Tail-Bandage, and fastening the Splints, as the fhatter'd Limb would allow. I raised the Wings of the Case, together with the Foot-board, which was before we began, placed ready under the Pillow upon which the fame was extended; and then gave Instructions to a Woman provided to look after him, how to order other Matters relating to his Nourishment, and took my Leave in Company with my Affiftant, whom I had engaged should attend me fo long as there was

Occasion.

The next Day we met, provided with warmer Applications, as the Spir. Vin. Camph. an Elixiviat. fotus Tinet. Myrr. cum Ol. Tereb. when coming to the Bed-side, I perceiv'd the Tenure or Rhythm of his

mit.

his Pulse, to my Surprize, but little varying from that in a found State, a free Breathing, little Fever, but a gentle Diaphoresis, neither Intermission in the Pulse, Twitch or Tremor on the Nerves or Tendons, nor yet the least Appearance of Delirium, altho he had slept little or nothing since we lest him, which he said was owing to somewhat pricking him between whiles, and which, if he fell into

a Slumber, made him ftart.

When lifting off the Cloaths to take a View of the Leg, I perceiv'd both above and below the Bandage very confiderably fwell'd, but with a kind agreeable Warmth upon the Foot and Toes, where I expected we should have found a Gangrene, and proceeding farther, taking off both outward as well as inward Applications, the Wounds, though crude, appear'd with no discouraging Aspea: There was one pretty large, made feemingly by the Head of a great Nail in the Cart-Wheel, on one Side of the Tibia, with feveral others on the opposite, occasion'd either by the Bones themselves, the Leg lying on an Hollow, or by Compression against some rugged Stone in the Kennel; all which having now again examin'd with my Fingers, to feel if I could discover any angular Parts, which by their Stimuli might have occasion'd the Spasm complain'd of the Night past: But finding none of that kind, nor indeed any other, fo entirely loofe as to give Countenance to their Removal, I again cover'd all any way exposed; with my dry Dressings; laying on three or four Stuphs exprest from the Fomentation, whilst the other were preparing: After filling up the Remainder as at first, with suitable Dossils, first arm'd with Liniment, then dipp'd in a hot Mixture of three Parts the faid Liniment, and one of Tinctura Myrrha cum tantillo Ol. Terebinth. as I believ'd the Sense of the Part would admit, covering these with larger Pledgits of Tow, faced with and dipp'd in the same, over all, the Theriaca spread Plaister-wise, and laid on hot: Lastly, the Tail'd Bandage and Splints, but gently same

ften'd, to support the Limb.

The third Day the Foot appear'd more swell'd, with some Vesications about the Ankle, threatning a Gangrene, also a vast Echymosis quite up to the Knees with great Gleet from the Wounds. Wherefore snipping off the little Bladders, and adding still more of the Tinctura Myrrha, as well as Ol. Terebinth to the Digestive, dressing up in all respects as before, having sirst well somented with a larger Addition of the Spir. Vini Camph. and applying the Theriaca on the Outside scalding hot: His Pulse I found now somewhat intermitting, and his Head disturb'd for want of Rest.

The fourth Day, I perceiv'd large Portions, not only of the Skin but the Muscles also, to turn putrid, yet with some little Appearance of Digestion round the Edges; his Pulse rather mending.

and his Head better fettled.

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Continuing the same Applications three or four Days longer, our Digestion much increased, the Sloughs beginning to separate, and casting off; the Tibia in its undivided Part above, lay bare on the Inside the Length of two Inches, which we dress'd with Pledgits of Lint dipp'd in, and after exprest from the Tincture aforesaid: For the better Digestion of the Ulcers, and correcting the Putrisaction, I strew'd on the Precipit rub. then cover'd them with Dossils wrung hot out of the melted Liniment and Ol. Terebinth.

Thus proceeding daily, for about a Fortnight, the threatening Symptoms of Gangrene and Mortification seemed to be overcome, and we had now so large a Quantity of Matter discharg'd, as on

the other hand was likely to exhauft our Patient's Strength, before we could have a found Basis to heal upon: So that I could give little Encouragement as to the Event, or (as I often exprest my felf to his Friends in his Hearing) other Prospect at best than that of his being a miserable Cripple, in Expectation of his liftening to an Amputation in Time, before he was too much wasted : But understanding the Danger of his Limb mortifying was now over, he would by no Means hear of parting therewith; fo that to ease my felf of the tiresome Work all I could, I now left him pretty much to the Care of my Affistant, visiting twice, and sometimes only once a Week: When after 9 or 10, feveral small Fragments of the Bones casting off, and working themselves out, the Discharge began to lessen, and the Patient, tho' much emaciated by his ftrict Confinement, (having never once been moved from the Place he was first put in his Bed) yet very hearty, and taking his Nourishment of good Broths, Meats of easy Digestion, and a Draught of strong Beer he had been accustom'd to, once a Day.

At three Months End, that Part of the Tibia which had lain exposed, not moving, nor tending to a Separation, I directed my Assistant now and then to give it a light Touch of the Cautery, to promote the Exiccation thereof, and consequently a Desquammation, at least of the outward Cortex, if not deeper tainted: From which, and the dry Dressings that were now every where apply'd, after 16 Weeks, or 4 Months Time, instead of Scaling, a large Piece of the said Bone began to move; and a Month after that, was so loose as to be taken out; the Leg from this Time daily and visibly shortening, notwithstanding all Endeavours to maintain a good Position of the same: However, finding nothing more to come away.

the

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the Callus at length growing so firm as to bear, (altho' with Caution,) the stirring of the Limb, at half a Year's End, he was listed out of Bed, in which he had sat up several Weeks before, and well content he had compounded for his Life under so severe an Accident, with an ill-shapen Leg, or one much shorter than the other, which by the Help of a Cork Shooe, and a Crutch under his Arm, a Stick also in his other Hand, enabled him to walk about, living after to be Eighty Years of Age; and in about two Years from the Accident, aid aside his Crutch, walking only with his Cane, or rather under-hand Crutch-head Stick, with less Trouble than must in Likelihood have attended the Stump Leg.

Yet do I not think this Instance sufficient to stand a President in the like Cases; for if there had not been in this, an excellently well constituted, or as we sometimes pronounce it, an Athletic Habit, it had been, in all Appearance, impossible to have kept off a Necrosis, or absolute Extinction of the Natural Heat: Or, missing this, yet by Abscesses or Apostems ensuing one upon another, very frequently at these Times, the Odds were exceeding great, that by so large and long continued a Discharge from thence, together with the Fatigue of

Pain, he had not funk under a Marafmus.

It was indeed a Work very laborious to us, as well as to him; but having began, tho at first in Expectation it would be very short, yet meeting after with so hearty an Old Man to deal with, and having an Assistant to give constant Attendance after the first Week, I was the rather encouraged to go on, and at leasure Times to inspect the Work, till it was concluded.

Upon his first setting the Limb to the Ground, after sitting him with his Shooe, a pituitous Tu-

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mour, or Oedema fell down thereon, as well as on the Leg in general, incommoding him for feveral Weeks: But putting on a laced Stocking, and filling the Inequalities thereof with Bolfters of Cloth, that we might render the same more serviceable, and directing a proper Regimen, suited to that Tumour, he got the better thereof; and gathering (as we say) Strength to stir more about, after some

Months it was entirely diffipated.

To this Patient, after the Removal of the loofe Bones, and the Digestion of the Wounds, for the farthering of Callus, I gave good Store of Ofteocolla with Comfry Roots boil'd in his Broths: But whether they, by supplying a proper Gluten to the Blood, as in Reason they might be supposed to do, or that the latter of itself, from its own proper Balsam, surnished the Cement, I say not absolutely, the inclining to the former Opinion, so well attested as the same has been by the most consum-

mate Artist of the Age in which he liv'd.

There is one very great Difficulty attending these Fractures, and that is the shifting the Bandage without giving Disturbance to the broken Bones: For altho it is never fo well contrived to be drawn away, yet it cannot be done, altho' with the utmost Heed and Caution, but with Hazard: And as at these Times there are usually great Gleet for the first Days, and after Digestion, or in Case of Apostemation, as large Discharge of Matter, there will be a Necessity once in three or four to change the fame; at which Times having fresh Cloths indented as the first, spread out smooth upon each other by you; whilft one supports the Heel, another gently grasping with both his Hands a little below the Knee before you dress up : Having removed your Splints on the Outside, and untuck d the Tails of your foul Bandage, let one on each Side

Side the Leg, taking hold of the upper and lower Lappits of that lying next the same, raise leifurely fo far that a fifth Person may, pressing down the Pillow with one Hand to facilitate the Work, with the other draw from under him the two lower. at the same Instant clapping into their Place the 3 Tails of the fresh Bandage thus evenly laid, whilst. fome other Person on the Side opposite, preffing the Pillow as before, pulls them fo far as to lodge the undivided Part in the midft; this done, the Leg is leifurely again refted, and whilft held fteady on each Side, together with the fresh Bandage likewise, especially on that you are to draw from, the remaining foul Piece is with the utmost Care and Caution to be taken away also from underneath, when you may drefs up again as formerly.

I generally at these times, to save the Linnen all I could, and prevent the too frequently shifting, used Wads of Tow, so placed about the Dressings, as to imbibe some Part of the Gleet and Matter,

and to renew them daily for this Purpose.

Accidents of this Nature are likewise common on board a Ship, where, by discharge of their Guns, loaded either singly or with Chain-Shor, in their Engagements, large Splinters whereof are sometimes forcibly impell'd into the Limbs, shivering and miserably tearing and contusing the Fleshy Parts; at which Times the want of Conveniency, were it practicable to defer the Operation, puts them speedily, amidst the Hurry, upon dismembring, and happy too at sometimes for the Patient, who must otherwise perhaps undergo a longer continued Torture by the Motion of the Ship, and the want of those Necessaries to be had at other Times, and in other Places; or defering it now, it may probably be enterprised after

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at a more unfit Seafon, and too late to fave his Life.

Of Fractures of the Joints.

The nearest of kin to these are the Fractures Fractures which befal the Joints, upon the Heads or Extre-of the mities of the Bones, and are abundantly worse Joints. than the common Fracture, or that in the Interstitia thereof, as we hinted in our general Prognestics. being liable to greater Fluxion, from the Tendinous; Nervous and Ligamentous Substances therein affected. as also to a Stifness and Immobility of the Juncture, by reason of the Callus falling in between and forming a Sort of Anchylofis, more especially where the Limb is kept upon a Flexure, as that of the Cubit: The very Confinement also after these Misfortunes, or the keeping the Limb in a different Posture, viz. that of Extension, as on the Knee, will at some times stiffen the Joints by the Mucilage grown hard and dry, which is separated by the Glandules thereof, for their Lubrication and freer Motion, and that to fo great a Degree in the Middle-aged, but more particularly in antient People, notwithflanding all Endeavours to prevent this Inconvenience, by emollient Embrocations, that it is long time before a good Use of the Limb is recover'd: How much more difficult then must we expect it, where together herewith the glutinous Callus has diffus'd it felf, and as it were lock'd up the Joint?

In the Management of these there is no Room for Splints, instead of which your Bolster-Compresses of Cloth, before-hand shaped to the Parts, then dip'd in Oxytrate cum alb. Ov. and exprest, are to be laid on each Side over your Desensative, with one larger of the same kind that may comprehend the

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Joint.

Joint, and the double-headed Roller, which at these times is preferable to the single: When raifing the Member gently both above and below, the Extension is to be made as formerly observed; and having enquir'd into the Condition of the same, the Bones, with the Palms of both your Hands, are to be carefully replaced; when your Defensative and Cloth-Compresses are to be laid on and adapted, the Middle of the Roller being now brought under the Joint, with each of its Ends rolled up tight; after which, bringing one of them to the Right, and at the same time passing up a little higher to the Left with the other, you proceed with one and the other contraryways with the feveral Circumvolutions, till the Whole is taken up, by which means you will more regularly compress the distorted and broken Bones, and prevent their starting out of their Places, than if the Bandage was still made the same Way.

When you have after this Manner reduced the Fracture, it will be necessary you should make a fuitable Prognostic of the Event, I mean the Hazard there may be of a stiff Joint; to obviate which all you can, so soon as ever the Callus will allow the stirring of the Limb, having for several Days before lubricated the Tendons, and all round the Joint, cum Ol. Lumbric Ungt. Dialth. Axungia humana, and the like, you may, whilst with one Hand underneath you gently stay the Joint, with the other as easily bend the Limb below; by which repeated Practice, if you gain never so little at a Time, yet by daily pursuing this Method, you will find you

may get farther ground upon the Flexion,

If the Elbow, you must in like manner gradually attempt the Extention, and the Rigidity, Stifness or Immobility still continuing, the said Callus, as before taken notice, being thoroughly confirm'd,

you may suffer him to lift or carry a Weight sometimes in the lame Hand, suitable to his Strength, and such as the Case shall require: After which, still embrocating as before between whiles, particularly going to Bed, let him accustom himself when warm therein, to be often bending and extending

the Arm as he can fuffer without Pain.

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These Methods failing, together wich the Bullock's Paunch, into which the stiff Joint, where it can be done, is introduced for several Days, and continued whilst the Heat remains, the last Remedy is the Bituminous Waters, such as those of Bath, where, besides the going into the same, the Pumping them on the Part very frequently recovers these maimed Limbs beyond most others: But here also you must beware you use them not too soon, lest the Callus not being perfect, instead of your expected Relief, you meet a farther Mischief, by loosening the same, which I knew besel a Gentleman I was after concern'd for, from his too early Resort unto that Place.

Of the Fracture Length-ways of the Bone.

The next we shall observe to you are those Fra-Fractures thures which are made secundum Ossium longitudinem, Length and here you want not so great Extension, nor yet Bone. any other Compress than the two Side-Bolsters over your Desensative; also the double-headed Roller after the Manner we directed before, in those of the Junctures, which I think at these Times also more serviceable than the single, as consoining the two Sides of the divided Bone, both to the Right and Lest, more exactly together than if made only to one of them.

But this Accident I have formerly acquainted you does not often fall out, at least that I could

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fully persuade my self: I must own, that I have at some Times suspected a Fisture Length-ways of these Parts, where I have observ'd the Patient complaining thro' the Extent of the Limb, as it were in a firait Line, of grievous Pain, and from whence he has been long time after the Accident, disabled from setting the same to the Ground, or in the least to bear thereon: Upon which Account I have confin'd him, dreffing up as a Fracture with good desensative Bandage and Splints, as aforesaid: When after Recovery, and beginning to walk about, I once discover'd a manifest Fulness the whole Length of the Tibia, with a rugged Inequallity throughout, like that of Soder pour'd on a Crack in a Leaden-Pipe, which doubtless was the Callus intervening and filling up the Clift.

Fractures of one Focil only.

Fractures It frequently falls out, where there are two of one Focil. Bones in the Limb, as below the Cubit, the Radius and Ulna; below the Knee, the Tibia and Fibula, called otherwise the greater and lesser Focil; that one of them may be fractur'd, the other remaining whole; which I have met with oftener in the Arm than Leg, as being more in Harms Way, by Blows and other Accidents occasioning the same, altho by like Force or Violence first impel'd against the Leg, we fometimes find the Fibula, or lesser Fucil broken, whilst the greater or Tibia stands its ground, and is able to support the Body in walking, tho perhaps painfully and lamely many Paces after the Hurt receiv'd; which Bone I think can very feldom escape upon a compleat Fracture of the Tibia, or if so falling out, could it be able to prop up the Weight above it.

At these Times the Apparatus is much the same with that for other simple Fractures: But you have now this Advantage, that the one Fucil keeping its Place, preserves in great measure the Rectitude of the Member, so that there needs not that violent Extension, sometimes wanting in others, before they can be reduced to their proper Places; or, being replaced, is there half the Danger of the Bone starting, its Partner proving so good a Stay, as where both are to be set to rights.

You may discover this Fracture below the Cubit, by a Rising on one Side of the Arm or Wrist, and a Bowredness on the other, giving still farther way sometimes, with a small crashing Noise, upon a strict Pressure on the concave Part: When this happens on the Side next the Thumb, it is the Radius that is fractured; if that on the Side of the

little Finger, the Ulna.

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When the Fibula or lesser Focil of the Leg is broke, bearing hard above the outward Ankle, with your Fingers on the Outside of the Leg, you will perceive also the same giving way; and being got upon the fractur'd Part, the Patient makes a wry Face, if he does not cry out: The divided Parts of the Bones may be oftentimes, as in the other, heard also crackling one against the other, with a Hollow or Sinking in the Middle from their Depression; besides, the Patient, if he goes to stand, complains of great Pain and Pricking in the Part.

Of Fractures Incompleat.

There is yet another Fracture, or rather, as I semi-Frathink it may not improperly be stilled, a Semi-Fractures. Hure: That is, when by some Force or Violence externally offer d to one Side, the same gives way

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by bending, but the Bony Fibres on the opposite, being thus hard press'd, and not capable to hold longer upon the like Flexion, snap asunder, after the Manner of a Stick, not over dry, bent to such a Degree as to strain the ligneous Fibres, and put them, tho' whole on their Concave, upon slying asunder on their Convexity, and splitting perhaps half way through.

These Accidents usually attend Children and Infants, whose Bony Stria and Lamina are more

ductile and pliable than in the Adult.

I have frequently observed the same to ensue that barbarous Custom, of Nurses and Maid-Servants lifting those little Ones by the Wrist, or taking them under the Arm, with the Weight of their Bodies bearing thereon, when going over a Kennel; also a hasty snatching them thereby, as they are falling from their Laps, or other Places heedlesly set upon, by which their Backs are often wrenched, their tender Joints distorted, and their Limbs thus render'd curved.

The same Injuries befal from their rudely toffing them to and from them, in their sporting with them; also raising them from the Ground, with no other Hold than that of their Hands round their Wrists or Arms: When, to add to their Imprudence and Folly, concealing the Hurr, the poor Infant is enseebled all its Life, or the Limbs left crooked, especially if at Nurse in the Country, having had Nature only for a Surgeon.

In remedying these, being taken early or in Time, after a suitable Extension, you are to bear the contrary Way with your Fingers, or the Flat of your Hand, compressing the rising Parts till you find the Limb strait as its Fellow, after laying on a Plaister-Compress, to prevent the Bones slying up again, with the Bandage over the same, as we mention'd

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rion'd formerly in Discoursing of other simple Fractures: By which you will foon retrieve the Injury, and fet to rights these Accidents.

Of Fractures with Diflocation.

It may be necessary before I leave this Subject, of a Frathat I should remind you of the Fracture which is Dislocation Complicate with a Discocation: A Case certainly on possible, tho' I dare fay not half so common as knavishly represented, by some who call themselves Surgeons, yet are unworthy of the Name; but more especially by that most Impudent and Ignorant Set of knavish Pretenders, stiling themselves Bone-fetters, who to amuse the deceptile Vulgus, and enhaunce the Value of a sham Cure of this Kind, give out that they fet the Limb, which had been not only out of Joynt, but broke perhaps besides, in two or 3 Places: Noris it uncommon to meet with Patients, who have been thus abus'd, and feem willing themselves to give into the Delusion, reporting in all Companies where there was no Body to call the Truth in Question. that their Arms or Legs have been thus broken. put also out of Joynt, and presently recover'd by some of these famous People: Yet at the same Time, if an Artist were to Survey these Limbs. whatever there might have been of a Diflocation, [which is now past finding out] it were odds [fo dextrously do these Folks perform their Work] if the least Appearance of Callus were discoverable in any one of the fractur'd Places: But enough. of this unlearned Crew in other Sections.

I know not more than once that I have feen together both Fracture and Diflocation, in the same Limb, tho' possibly others oftener: Nor once the same Bone Fractur'd at the same Instant in two distinct

distinct Parts thereof, in the proper Acceptations and as commonly understood: The I by no means dispute the possibility also of this Accident.

In a Fracture with Comminution, a Bone may be faid to be broke, not only in two or three, but in ten places, meaning by the same, so many Pieces or Splinters: And in a very oblique Fracture, both of the Leg, as well as Thigh, upon the first View, and even handling of the Limb, I have been led into such a Conception of the Case, perceiving the Bone loose in the lower Part, and several Inches above, discovering some other Part protuberating or pointing under the Skin: But on Second and farther Examination, I have been convinced it was one and the same Facture, and that the double Appearance, has proceeded only from the great Obliquity of the Bone broken.

I have faid thus much, by no means to have it thought I disallow the Possibility, as I observed before, of the same Bone to be Dislocated and Fra-Hur'd, or to be truly Fractur'd in two distinct Parts; but to acquaint you, how frequently these Reports have been given out, when there has been no Truth in the same; As I could make Oath it has been in most, if not all those I have examin'd after, where the Case has been represented on this

wife. But to our purpose.

In a Fracture happening with Diflocation, it certainly behaves us first of all to attempt the reducing the Bone displaced, where the same is practicable, before we meddle with the Fracture: Otherwise the Extention requisite to replace the Head of the Bone slipt out, must unavoidably undo your first Work of reducing the Bone broken.

I said if the same is Practicable, because I think in many Cases, it is not: To Instance, admit the

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Fracture a little above the Wrist, the Elbow or the Ancle, in the middle of these Bones, with a Distocation of the Cubit, the Humerus or the lovnt of the Knee; altho' here I fay, there may be greater prospect of Success, having more Liberty for Extention as well below as above, yet supposing the Fracture on the upper Part of the Ulna, the Os Humeri, the Tibia, and especially the Femur, near its Entrance into the Pixis, of the Ischium, called Acetabulum Coxendicis, with a Luxation of the same, I fee not any likelihood of fucceeding in the Reduction of these Dislocations: And therefore all the Artist has to do at such Times, is to take Care of the broken Bones, and making an honest Prefagium, leave the rest to Time and Nature, least by feeming to over-act his Part, Inflammation, Gangrene, at the best Apostemation and Fistula ensue. much worse for the poor Patient, than if you left him whole, with a less useful or imperfect Motion of his Limb.

We have already acquainted you what is to be done at other Times, when any of these Symptoms happen to arise after the Reduction of Fra-Etures in general: And if it so falls out, that they have already seiz'd on the Limb, before you are sent for, as in Places remote from present Assistance, or where the Accident has been overlook'd, and taken only for a Sprain or Contusion, the prime Scope you are now to aim at, is to take of these before you meddle with the broken Bones; for here also by an ill-tim'd Extention in order to reduce the Fracture, you will highten the same to the greatest Danger not only of the Patients Limb, but Life also.

of

Of the Callus over-grown, also of a crooked Limb left after a Fracture.

of the Cal- There are yet two supervening Accidents unlus too lux- observ'd, at sometimes occuring upon these Cures:

Ariant. The one an equal but over-grown Callus round

about the fractur'd Parts, occasioning a Deformity by standing out above the Surface of the adjoyning; the other the same Callus agglutinating the broken Extremities in a Curve, or leaving a crooked Member. Which has, as in the Cafes above recited, been owing either to the Fracture never well reduced, or after Reduction, again displaced by the Irregularity of the Patient, or from Convulsion in his Sleep, usual the first Days, and from whence the Bone is afresh someway distorted: Or laftly, as frequently also falls out, to the untoward Obliquity of the Fracture it self, or Comminution of the Bones; which notwithstanding the greatest Care and Diligence, especially when complicate with Wound, Abscess or Apostemation, could not by any Art or Means, have been left in a better Figure: But fuch is the hard Fate of Surgery, that a Fracture however ill-Favour'd or Compounded. is still no more than a Fracture: And every one expects to come of a like, with a ftrong and a strait Limb, or else the Surgeon has not done his Duty; little confidering that he who has brokenhis Limb unrowardly, must expect a Cure of like Kind: On, as I used to tell these thoughtless People, he who at all times wants his Limb to be well fet, should be fure of taking Care that it be well broken: But pardoning the short Deviation.

As to the first of these Accidents, the luxuriant Callus, our Authors have propounded fundry Me-

dicaments.

dicaments to mollify, relax, and dissolve the same. grown superfluous; such as the Decoctions ex Rad. Alth. Bryon, Lil. Fol. Malv. Branc. Urfin. Sem. Lini no Fænugr. &c. used as a Fomentation; Embrocations afterwards of some of the Adipes vel Axungia, as the Adeps Anseris, Axung. Humana, and the like; also to the same Intention serves the Fume of Vinigar sprinkled on the Pyrites, ascending all round the same, as we observed formerly for the Schirrus, the same Emplasters too there mention'd. fuch as the de Ranis cum Merc. de Mucilag. de Cicuta ex Ammoniac. Diagalban. The simple de Minio has had much Eulogy given it upon this Occasion, how deservedly I cannot say, having never found

any great Matters perform'd thereby.

As the Disorder therefore seems easier obviated than removed, so when absolutely confirm'd, I much question whether these Experiments can be at all fecurely enterpris'd: For if the Callus has been of long standing, you may I think as well pretend to dissolve the Bone it felf, as that now offify'd Callus; and if recent or imperfect, you run a Risque of separating the same entirely, altho you may propose to set Bounds and leave off in Time; for the Cement looflening a-top, the concreted Juices underneath will likewife give way, fo that altho' you think you have removed the Cause, by leaving off such resolutive Topics, yet will not the Effect presently cease; Which I well remember was the Confequence some Years ago of our Bath-Waters, recommended to a Gentleman HIST. 90. under Discontent upon such an Accident, together with the Sulphurous Mud stagnating at the Bottom, laid round the protuberating Callus; not yet it should seem compleat or thoroughly hardned, in order to level the same; which, tho' the Patient apprehended he had timely disused, yet quickly

quickly after his return to Town, found himself mistaken; the whole growing so limber, that he was glad to lye in Bed as long again as he had done at first, and afterwards to compound for a crooked

Limb, instead of a knotty One.

So that all Things duly consider'd, I would never advise any Patient to set upon dissolving the insum Callus of a broken Bone, or to attempt other Remedy at these Times or on the like Emergencies, than a suitable Abstinence, using Foods less nourishing to supply the same, and farther to call off the supersuous Humour by Bleeding and gentle Purgation, repeated, if there shall be found Occasion, still farther to diminish it; lastly, by suitable Compress and proper Bandage, to suppress or keep under, if not reduce it to proper Boundaries: And where these are timely practis'd, its rare I think to meet with Complaints of this Nature.

Of a crooked Limb after a Fracture.

The other, viz. the Crooked Limb left after a Fra-Elure, is very common, and admit the Callus has been a Month, but especially of a longer Date, I see as little Likelihood of Remedy as for the other.

The breaking afunder forcibly the new Cement at these Times, has I think but rarely answer'd: Nor are you sure after this second Rupture, of Success.

From the larger Bones, as of the Leg, but particularly of the Thigh, thus served to gratify some more nice than prudent People, I have known Abscesses arise, and the Fracture before Simple, now made Compound, by a new Afflux of Humors; at length Rigours and Convulsions have ensued and carry'd off the Patient; whose Life has been, I say, thus forseited to a vain Curiosity, and by an Ar-

tift full out, I think I may fay also, as imprudent,

for enterprising the same.

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Others, tho with less of Hazard to their Lives, I have known fare little better as to the Straitness of their Limbs: And some, after the Pain they have hereby undergone, have been lest worse than before: Wherefore at these Times also, I should rather persuade the Patient to rest content with his crooked Arm, but especially his Leg and Thigh, however ill shapen, than to submit to a Breach of a Callus now confirm'd, in Expectation of a strait

one afterwards of either Sort.

If I found a Bone protuberate upon an Accident of this Kind, at the first opening of the Limb, before the faid Callus was to any Degree fettled, I should not scruple probably, if I could not otherways fink the starting Ends by Compress, to renew my Extension, and endeavour remedying of the same, provided there was no Tumbur, Inflammation, or other Symptom to contraindicate: And it may be at the fecond Opening, at the Fortnight's End, if I found the Callus foft or pliable, I might attempt the fame; nay at 3 Weeks I would venture to rectify a very bungling Piece of Work, a started Bone or a Fracture ill reduc'd in a small Limb, as the Arm, either above the Wrist or Elbow, the Patient an Infant or Child, void at the same Time of Fever or other considerable Indisposition: Farther than this I should be unwilling to go, nor yet fo far with many Fractures, and many Conflitutions.

From all which, the young Surgeon may animadvert, that the best and safest Method to avoid these Inconveniencies, is to have always a vigilant Eye or early Oversight, where these Accidents are to be seared, when the Error may be corrected at

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Of the over-grown Callus, &c. Sect. VII.

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fometimes, or if found by long Delay past Help, to endeavour, by Compress well adapted, and strict Deligation, as the Part will suffer, to prevent the farther bearing-out of the one, and the other with a quilted Stocking to conceal some at least of the Desormity: Which is now the utmost, that with Sasety I think can be by the Surgeon experimented, or by the Patient is to be expected.



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S E C T. VIII.

Of Particular Fractures: And first of those of the Cranium or Skull.

A TE have already, in the foregoing Section, given you a brief Description of most I think, if not all, the material Points relating to Fractures in general, with their Diagnostic and Prognostic Signs, as also their Apparatus and Method of Cure: But the Fractures of some particular Bones requiring a distinct Observation, and which were unobserved therein, we have farther thought fit to allot a feparate Section, however short of some of the rest. for that Purpose, and shall begin with those of the Cranium or Skull, commonly handled among the Wounds of the Head, with which they are often complicate, at least require generally to be so made, in order to their Cure: Not to mention those of the Membranes underneath, and of the Brain it felf, owing frequently to a Depression of the said Bone beaten in, and wounding of those noble Parts: However, as we have before taken a Liberty to deviate from some others, in our Method of handling these Subjects; so here also, intending a short Summary of Fractures under the same View. we place those of this Bone among the reft, passing by the Wounds of its outward Teguments, before observed among the particular Wounds, and M 2 touch touching only upon those underneath no farther

then concerns the fractur'd Skull.

Of these Fractures, the most usual are the De-The several pression, called by the Greeks, Ecpiesma, and the Kinds of Fractures Fissura or Crack, besides which the vaulted or of the Skull arched, by the same Writers named Camarofis, is at sometimes met withal: That is, when one Part of the Bone is beat in, the other lying high above it, or one being funk, the other like an Arch is left standing onhigh at the Top, which Kind may. among other Occasions, be owing also to some Instrument forcibly struck into the Cranium, when being haftily, and with the like Force, drawn out again, that Part of the Bone into which it enter'd, is pull'd up above the rest by the Extraation.

The Depression happening without a Fracture, is more peculiar to Infants and other tender Subjects, the Bony Lamella of whose Skulls, may give way to the external Violence offer'd at fometimes, and by their native Elasticity, perhaps rife after to their former Site, at least remain impress'd, without any ill Symptoms: But these I think may more properly be term'd Contusions, as the Sedes and Excision formerly remark'd Wounds, of the Cranium; the first being made by a sharp-pointed Instrument entring thereinto, the last by as sharp an Edge dividing, and fometimes cutting away a certain Portion thereof.

The Condisputable.

To the Fisure, just above recited, belongs the tra-Fissure Contra-Fissure, called otherwise Resonitus, which indeed, as to the Reality of the Fact, is with me

a little disputable.

For altho' upon the striking on one Side of a Glass-Sphere, or other hollow Globular Body, the Collision of the Air is fuch, that passing the same Instant round, and finding none, it bursts and

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vents it felf on the Parts opposite: Yet where the Globe is divided into several Sections, however close they are held together, yet will the Force break through at the first of these, upon striking either: Now the same Office that these Sections perform, in warding off the Blow affecting Parts at greater Distance, especially such as are opposite, or stopping its farther Progress, is done by the Indentures, called by Anatomists the Sutures, in a humane Skull; and where these are not obliterated, or perfectly Offify'd, I see not how this Accident can fall out, unless, as I hinted but now, in those whose Craniums are composed of one entire Bone, where there never were such Indentures to be discover'd. and which, tho' I have feen two fuch, I believe are very rarely met with; and even here too it may be question'd, whether the Impetus of the Air inclos'd would not, in its Circumgyration, be fo moderated, by the Perforation at the Bale of the Occiput, as to hinder its burfting at the Part oppofite to the Stroke or Blow.

But I shall not enter farther into this Controvers, about which I find our Writers are not fully agreed, some afferting, and others, more especially among the Moderns, denying the Fact.

There is an other of these Contra-Fissures, which some of them have taken Notice of, i.e. when the upper Part or Table is struck, and the Breach is made in the inward or lower one; to obviate which we have here also the Diploe or Medullary Interstice between the said Tables, which doubtless must break and dissipate the Force of the Air, alike with the Indentures before observed.

The outward Table I have seen depress d, when the inner has escap'd and continued whole: But I cannot say, I have ever discover I the inward fractured or beat in, the outer at the same Time

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whole,

whole; tho' I shall not take upon me absolutely to deny the Possibility of these Accidents at some Times, and in some Skulls, having several Authorities to countenance the same: But we now hasten to the Signs of a fractur'd Cranium, among which, first,

Diagnostic Signs of a fractur'd Cranium. The Diagnostics, and these are either Conjectural from the consequent Symptoms, or Real and perceptible both before and after opening of the Hai-

ry Scalp.

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Of the first Sort, are Stupidity and Coma, upon the Fall or Blow, or a Delirium presently after, Hamorr-bage or Bleeding at the Ears or Eyes, as well as Nose and Mouth, Vomiting, Convulsions, Faltering in the Speech, and Palsy of the Limbs: I called these, with some others of the like Kind, Conjectural Signs, because it is very possible the same Symptoms may happen to supervene upon Concussion only of the Brain, with Estussion of Blood upon its Substance, yet without a Fracture: Nor is any so truly Pathognomonic, as Physicians term it, or inseparable, as that when ever the same appear, we can truly say the Cranium is fractured, altho' the Vomiting and Sopor give us more especially great Suspicion.

When there happens a Wound, we are told alfo, that the Hair, if falling out where the same
grows, will be found cut in sunder, and standing
as it were erect in the same, which they will not
allow can be otherwise occasion'd, than by Resistance from the Bone underneath; but this I think
is no more absolutely to be depended on, than some
of the foregoing, or than the Experiment of a
String held fast between the Teeth, and being extended at the other Extreme, jerked suddenly
backwards and forwards, which may indeed very
much affect the Temples, but will less influence

other

Sect. VIII. Of Fractures of the Cranium.

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In the Case of Delirium, Stupidity, Aphonia or Loss of Speech, or other Defect of Understanding, I have been at sometimes directed, in uncertain Accidents of this Nature, to the fractur'd Part, by the Patient's lifting up his Hand, as it were naturally very frequently to the same: But this, where there is a profound Sopor, is sometimes wanting, and at

others may prove erroneous.

The Real Signs, and fuch as give us indifputable Evidence are, if there is no Wound, when by pressing on of the Fingers round about the Hairy Scalp, we find fuch Depression or Dent and Sinking therein, as lets them in below the Surface of other Parts of the Cranium; and when by such Enquiry, the Bones being separated, we plainly perceive them to give way, with a Crackling under our faid Fingers, the Case is then indubitable; alfo, where there is a Wound, still farther evident, and perceptible by your Fingers making the Enquiry, if it be not visible to the naked Eye.

The Fisure indeed is not so easy to be discover'd, the Cranium now keeping its proper Dimenfions, and the fame fometimes running very intricate and winding, at a Distance from the Part first receiving the Blow or Fall; at other Times also so very fmall, as scarce obvious to the naked Eye, when the Cranium for that Purpose is denuded of

its Covering the Pericranium.

That Sort which is called Rima, the Clift or Chink, is much easier found out, as more conspicuous and discernable when laid in View, as also to the Finger or Probe in fearthing after it; but here you must take Care you are not deceived by the Sutures, in taking these for some Clift or Fisjure, in fuch your Examination, as I remember hap-

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happen'd to my felf, in a Leather-Seller's Child, in Old Bedlam; who had received a Wound on the lower Part of the Forehead, complicate with the usual Symptoms of Vomiting, Delirium, as in Fractures of the Cranium; fearthing narrowly for which, I difcover'd a Ruggedness on the Os frontis, which stop'd my Probe, and which I took at first for a Fissure; but in dilating the Wound, in order to make way for the Trepan, I found that what I had before taken for fuch Fiffure, was a Continuation only of the Sutura Sagittalis, in this young Subject, quite down to the Nose: Yet if the Symptoms had not gone off as they did, by thus breathing the Parts affeeted, I had notwithstanding proceeded to the Operation on the Side of the faid Suture, for the Relief of the Brain; which however, neither complicate with Fracture or Fiffure, is yet oftentimes oppress'd in its Membranes by Inflammation and Tention, as well as Extravasation and Abscess, enfuing at sometimes by reason of the Concustion, and which on these Accounts requires the Use of the Instrument, as much as if the Cranium above had fuffer'd a Solution of its Continuity.

The Method of discovering the less perceptible, or Capillary Fisture, is, according to some Practitioners, by going over the suspected Part with a Sponge dip'd in Ink, and afterwards wiping the same off with another dry one, where the Desect is, the Ink soaking in, leaves a Trace behind, dis-

covering its Site and various Windings.

Hair, (which at these Times is the first thing to be done) you lay a Gataplassis of Bean-Flower over the whole Scalp, and when the same is dry, remove it, you will find the Fracture thereon delineated But this I think, whatever Discovery it may make in the larger, where there is no Occasion for the Experi

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Experiment, I doubt will be found a very uncertain Rule to go by, in the Capillary Fisure, where there can be no damp or Halitus passing through, or other Vacuity sufficient to alter or impress the contiguous Parts or inward Surface of the Application: And so far of the Signs Diagnostic.

As to the Prognostic, it is certain every fractur'd Prognostics Skull has more or less Danger attending, not so of a Framuch from the Fracture singly consider'd, as the Cranium supervening Accidents, by Reason of the Membranes underneath opprest, Essusion of Blood-upon the Brain, or this last it self, together affected.

However, As a Fracture, where large Portions of the Cranium are broken of, there is still more Danger from so noble a Part as lies therein exposed thereby, the which we cannot always say of the Fissure: The Rima, or large Fissure, called otherwise a Chink, is not only sooner discovered, but at sometimes may so fall out, as to serve for relief of the Parts within, by discharging the Blood or Serum Extravased, and letting out the putrid Steams shut in by the Minute or Capillary Fissure, which escaping the Enquiry, is frequently overlooked, till the Patient being thrown anto Convulsion and Passy, or the Brain corrupted, the Operation is performed too late: A satal Instance of which, I have given in the Introduction to a remarkable Case in Surgery, Printed in 1709.

Again, in small and superficial Depressions, especially of young Children, there is less Danger than where the same are deeper, and by the Angles of which, the Dura Mater underneath is prick'd or torn, exciting Convulsions and other formidable Accidents: The former sometimes rising up again of their own accord, by the elastic Property of the Bony Fibres themselves, or continuing where they are, exciting no threatening Symptom: Whereas the last are seldom so lucky.

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but for the most Part, if not always, require the

Operation of Trepaning.

Farthermore, Those Fractures seated upon or near the Sutures, under the Temporal Muscles, and on the fore-part of the Head, have frequently more Danger, than at a distance, or remote from the same, as on the sides of the Synciput, or more backwards on the Occiput: This I say, consider'd fimply as Fractures, nor can there be any time precifely fix'd wherein we can pronounce the Patient absolutely out of Danger after these Accidents. Some of the antient Writers tell us of one Hundred Days, I must confess I lost a very hopeful Patient, who was got up to Eighty Eight, and had been to Appearance, after the Operation of Trepaning, the greatest part of that Time, as well as ever in his Life: Whose Case being extraordinary, Ipublish'd asabovesaid, with a Plan in Sculpture of the Fracture? So that in this Respect as we said of Wounds, we may fay also bere, that some die presently of seeming inconfiderable Hurts: A box of the Ear having immediately depriv'd them of their Lives, others hold out long, and fink at last, whilst others again Survive very desperate Accidents, and deplorable Fractures, and [tho' long] do well at last.

Day died in earnest, from the triping up his Heels the Day before by his Friend in jest, as they were Sliding; by which a Rupture of the Bloodvessels happening, together with a Fisure of the Cranium, the Brain was instantly Delug'd, as we discover'd upon Dissection, and the use of the Saw.

Hist. 92. Scultetus takes Notice of one, complaining of great Pain of the Head, with Vertigo, a Paralysis seising also upon the Arm, which gave the first Suspicion of a Fissure; for which having open'd the Scalp, and made discovery of the Cleft, he trepan'd

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pan'd twenty Weeks after the Hurt receiv'd, when the Symptoms going off, the Patient recover'd.

Hildanus affures us, that he had feen a Maid, HIST. 93 who had loft a great Portion of her Brain, performing at the same time her Domestic Affairs, as if no Accident had befaln her: Yet after 6 Months, she Died, rather, as he relates, by the Neglect of her Wound, than its Danger otherwife.

Marcellus Donatus, at the Years End, took out a Hist. 94 large piece of the Skull, which he found loofe upon the Membranes: Nature having separated the same of her self after the Accident, and an Angle of the Bone, thrusting up against the Scalp, gave the first Suspicion; which finding otherwise impossible to be Extracted, he first dilated the Wound, faw'd off a piece of the Cranium, which Thut it in, and drew forth the loofe Bone, the Patient afterwards recovering.

Monfieur Vaughion, informs us, that they had at Hist. 95 the Hotel Dieu at Paris, a Woman, who by a blow on her Head, had a large part of the Frontal, with as much of the two parietal Bones, came away whole together, by which the Dura Mater lay expos d for a wast Compass; yet notwithstanding, the same Incarn'd, tho it never harden'd fo, but the Oscillation, or alternate Motion of the faid Membrane continued manifest: For the Defence therefore of the Brain, and this tender Penthouse over it, she wore always a Cap of beaten Lead, and carry'd about the large Portion of her Skull, as a Cup to receive Alms in.

All which, with many others I could recite, some of them falling under my own Knowledge, should encourage us not to abandon these miserable People, whilst alive; but still to do our utmost for their Preservation, since it often falls out, that the Accidents of this Kind, tho feemingly very deiperate,

perate, have notwithstanding, been recover'd: But it is time we come to the Method of Cure.

She Cure.

In every great Contusion then of this Part, I mean the Head, whether by Blow or Fall, if your Patient loofe his Senses, Raves, or utter's any incoherent Words; also if Vomiting, Palfey, Spasms or Convulsion; if Sopar or Snoring, as in a Lethargy, or like one in a profound Sleep, having taken away a convenient Quanty of Blood from his Neck, or if that cannot be conveniently done, from either Arm, you are to cause his Head to be Shaved, and then strictly examine all Parts of the Scalp. as before directed: When if you find no Depression of the Bone, or separation of any Part giving way, and crackling as it were, under your Fingers; or having no Direction to the Part injur'd by the Patient's lifting up his Hand, shrinking from you, or winching when you are upon the fame; you are then to enquire of the By-standers, if there are any to be found who were present at the Accident, what part of the Head came first to the Ground? Or after what manner the Stroke was given, or the Blow receiv'd? As well as by what fort of Instrument? In which Place you may fometimes discover an Echymosis or Sugillation, if not Fluctuation of the extravased Blood underneath: Upon which Part, or as nigh as may be for the Suzures, and Temporal Muscles, [which last as formerly Noted, must sometimes be divided, when you cannot otherwise come at your Work] you are to make a Cross-Incision, or in other Form more Advantageous, where these happen to lye in the way. through the Scalp to the Bone: And having rafed the Pericranium round about, in order to the Operation, you are for this time to content your felf. and dress up dry, or with Restringents, if there be occasion; as we have directed for the Wounds

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of the Scalp, with the Cranium denuded of its

After this, the Symptoms no ways remitting, but the Sopor especially, still continuing, let the Physician be call'd in, that by Vesicatories, Sharp and stimulating Clysters, together with proper Volatile, Cephalic Medicines, the Spirits may be roused, and a Revulsion made from the Parts oppress. After which, waiting till next Day the Issue of your Incision, and physical Prescription, the first of which sometimes by only giving a Breathing to the Part, no damage having befaln the Skull, taking of the Tention, removes the Symptoms, the Patient quickly after recovering his Senses, and requiring no farther proceeding with the Instrument.

"When Charles, the Son of Philip, King of Hist. 961

" Spain, by a Fall down Stairs, had exceedingly contus'd his Head, and was thereby Convulft,

" Vefalius being fent for, immediately made a cru" cial Incision of the Scalp, in order to bore the
" Skull: But the Symptoms hereupon disappearing,

"the Perforation was fet aside." But we have no need of Foreign Instances of this Kind, since every one who has been any thing conversant in Pra-

ctice, must have observ'd as much.

Having then remark'd the Consequence next Day, of the preceeding Incision, and finding the Symptoms to require, you must proceed to bore the Cranium, by setting on the Trepan; and indeed in some Cases, where there is great Depression, and the Membrane underneath thereby offended, unless the Hemorrhage restrain your farther Proceeding at that Time, it may be requisite you set on the Instrument sooner.

The deferring this Operation by reason of the Full-Moon, at which time we are told the Brain riseth

fifeth higher than at others, and confequently renders the same Dangerous, is certainly Hazardous, for were not the Supposition of such Matter of Fact groundless, as I believe it is, yet must the Danger by delay, in some of these Missortunes, be still

greater.

I have trepan'd Children of 5, 6 and 7 Years of Age Successfully, and yer in these Subjects the Dura Mater, and the Brain it felf, lie much higher and closer to the Cranium then in the Adult. being contigous doubtless in the Fatus, as is Evident by the Tracts or Sulci, exculpt on the Concave Part of the Cranium, by the Blood-veffels of faid Membrane: And therefore in this tender Age, the fleadier Hand, lighter Pressure, and more leafurely Motion of the Inftrument, with all necessary Circumspection, will be wanted : But the Neglect of performing it, even in those still somewhat Younger, which is forbidden by fome Writers in Surgery, if there be no other way to free the Membrane from the deprest Bone, which by its Points or Angles cut in and tear the fame. the Symptoms thereby highten'd; this I fay, feems to me a fort of indulgent Cruelty, or abandoning these little Ones to a greater, for fear of the leffer Danger.

I say not this, by any Means to encourage a rash Enterprise, of which I think none have kept themselves clearer than my self; but I must enter my Opinion on this wise, that where one has miscarry d under the Operation, meerly by Trepaning, there have been 3 or 4 times that Number lost, by its not being done at all, and many others from delay, or not timely Enterprising the same. But proceeding, let your Apparatus, when going about

the Work, be as follows, ready at Hand.

t. Your Syndon of Silk or Sarsenet, double, of a circular Figure, suitable to the intended Bore, rather wider in its Dimensions, that lying under the Edges, the Membrane may be thereby the better secur'd from the same: This must be strung with Silk, for its easier Extraction. 2. Your dry Dossils, to sill up the Wound, with a soft circular one for the Bore, or to be laid lightly down upon the Syndon. 3. Your Pledgit, to lye over all, arm'd with Liniment. Arcai. 4. Soft Bolsters of Cloth, for the outside;

And lastly, your double-headed Roller,

These being all ready, with the Medicine for Dreffing up of the Membrane, or in which the Syndon must be dip'd, you are to take an Instrument with a fuitable Bore, well fet for the Work, with its Pin fixed, and placing the Patient's Head commediously on a Pillow, in a good Light, where it must be kept steady by the Hands of your Assistant, stopping first his Ears, especially if he be Senfible [and indeed I fee not otherwise any occasion for fo doing least the jarring noise of the Saw difturb him: When fixing the faid Pin on the Bone. you turn gently backwards and forwards, till the Teeth of your Saw have made a circular Sulcus or Furrow: After which, there being no farther hazard of lipping out of the Tract you have thus made, you may take out the Pin, and cleaning the Teeth of your Instrument with a Brush provided for that purpose, enter it again, bearing still harder till you are got through the first Table, or down to the Meditullium, called the Diploe, or Interstitium of the two Tables, which you will know as you lift up the Instrument, by the Blood issuing into the Sulcus: When again proceeding warily, more especially in Children, whose Skulls require not so strong a Presiure, and whose Brains, as we but now observ'd, lye high, with the Dura Mater as it were

were contiguous to the Infide thereof; fo that here the Motto, Festina lente, is worthy your Remembrance, left otherwise by Inadvertency, you brake through of a fueden, and wound the Membrane: For your farther Security against which, it behoves you to lift out your Saw, not only to brush or clean the Teeth, and to oil them afresh. if there be found Occasion, for their pleasanter working, but with the End of your Probe or Spathula to examine the Depth of your Tract or Furrow, that you may the better know on which Side' to bear most, passing lightly over that which is most divided, till the Piece beginning to shake round about, is now only held by fome fmall Particles of the inward Lamen; or, which will readily give way to the Elevator, entering that Part of the Bore where you perecive you had got quite through

And indeed this Way of proceeding, particularly with Children and young Subjects, I prefer to the advancing farther, or dividing the Piece all round entirely, and taking up the same, as may fall out, in the Bore of your Instrument, or off the Membrane, where it sometimes falls down, for the

Reasons above.

I remember the first little One I Trepan'd, an Accident of the first Kind befel me, and put me, as well as the Warden, who stood by, into great Consternation; for missing of the Piece, we were fearful, finding a Rent in the Crassa Meninx, that the same was fallen through upon the Brain, till farther recollecting, and taking up the Instrument I had been working with, I perceiv'd it fast shur within the Box.

But I shall not enlarge farther upon this Operation, having laid down the Method of my own Process, in a Case of this Kind before remark'de u

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Vol. II.

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in which I have given a Diary of Practice from the Beginning to the End; unto which however I shall add this farther Caution, leaving the same to your own Judgment when ripen'd by Experience, when ther or no it may be worthy to be remark'd: That is, when you are enter'd the Diploe, before you raise your Instrument, if it be not better to proceed and cut a Trace in the fecond Table, left hastily, or at unawares, lifting up the same at that Juncture as you are turning, you break off the first, which I once fee fall out, to the incommoding the Operator, and perplexing the remaining Part of his Work, altho, the Case seemed indeed uncommon, the Tables, or external Lamella, proving very thin, and the Medullary Interspace, or Diploe, large, foft, also in Comparison, or loose and spongy, like an Exostosis, or what falls our among some Ricketsy Children, such being our prefent Case: But to our Purpose:

When with the Elevator you have raifed the Piece, after the Operation fo far perform'd, and with a Lenticular, if there be found Occasion for its Use, (which is not often, where the Work is well perform'd) fmoothed the Edge of the lowermost Table from any Points or Angles of the same likely to give Offence to the subjacent Membrane: There is then, I say, no small Controversy about the Nature of the Medicaments to be apply'd to the same, called Dura Mater, or Meninx Crassa, to diffinguish it from that underneath, which immediately invests the Brain, termed Pia Mater, or Meninx Tenuis, or in which your Syndon must be dip'd or moisten'd, that is the Piece of Silk or white Sarcenet, before-hand fitted, fo that being laid down into the Bore, as above lirected, it may extend beyond the Edge of the Perforation all round, for fecuring the Membrane aforefaid.

Medicaments for the Membrane. Melle Rosarum, or this latter with a few Drops of Balf. Peruan: Others, the Ol. Rosar. cum Resina, for which Mr. Wiseman was a strenuous Advocate; others again, the Ol. Hyperic. cum Syr. de Rosis Siccis, vel melius eodem Melle; others, the Ol. Lumbric. cum Balf. Tereb. Either of which, I must indeed think preserable to that of Galen, the Acetum Vini, which he orders somewhere, as I remember, for the first Application.

But as to the Nature and Quality of these Medicaments, you are very much to be guided by the Age, Habit of Body, and especially the Degree of Putrifaction that may happen to attend, together with the Time or State of the Inflammation.

I must confess, whoever applies first of all the Spir. Vini, altho' admix'd with Mel, seems as if he intended to deterge before he had digested, which is preposterous, and prejudicial in any Wounds, much more in those of so noble and sensible a Part as this: Wherefore, I think, for the first Dressing, there is nothing better than the warm Liniment of Arcaus, or Mr. Wiseman's Medicine aforesaid, the Oil of Roses and Rosin, with which he begins and ends, substracting only from the first after Digestion, and adding more of the last, or instead of the Oil, putting in some Mel Ros.

But when the Membrane is digested, there is no Objection against the said Mel cum Spir. Vini, or supposing the Part very soul and putrid, the Tinct. Myrr. & Aloes in Place thereof, nay, in a higher Degree of Putrisaction, I have used the

Flof. Ung. Ægypt. with the Liniment.

The Balf. Tereb. cum Ol. Hyper. is likewise a suitable Digestive for these Wounds, or this of the Author last recited.

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R. Tereb. Venet. 3iss. Ol Hyper. 3ss. Pulv. Thuris 3j. cum Vitel. Ov. q. s. f. Linimentum.

In Case of Pain. the Ol. Lumbric. may be sub-

A Deterfive for this Use is prepar'd likewise in Manner following.

R. Terebinth, 3js. Mel Rof. 3j. Suc. Plantag. & Apij ā 3j. Coque ad Suc. Consumptionem, dein adae Farin. Hord. 3ss. Sarcocol. 3ij. m.

This may be made also a Sarcotic, by adding of the Pulv. Myrr. Mastich. & Aloes a 3j.

Where the Pia Mater and Brain it felf are injur'd, the same Author lays down this which follows.

R. Suc. Beton. Ziv. Calamenth. Zij. Flor. Contaur.

Min. p. j. Hyperic. p. ij. Vini odorif. tt.j.

Infunde per Dies tres & Coq. ad Suc. Consumptionem, cola & adde Terebinth. claræ 3iss. Gum. Elemn. Spir. Vini Sol. 3ij. Ol. Hyper. 3iss. Mel Ros. 3iv. Coq. iterum paulisper & addendo Pulv. Myrr. Aloes, Thuris Sang. Dracon. subtilissime Trit. a 3i. f. Uaguentum.

Having digested your Membrane, mundify'd and incarn'd with these or the like Remedies, so that the Flesh begins to rise up even with the upper Edge of your Perforation, you are then, or rather earlier, to dress up dry, lest otherwise a Fangus rise, as frequently happens in these Cases, (tho' I believe usually by the want of timely Care to prevent it) and give you great Disturbance: To obviate this, I have sometimes sprinkled the Pulv. Ros. rub. Cort. Granat. Flor. Balaust. or such like, continuing

nuing those exiccating Remedies till the new Flesh begins to harden, and the Edges of the Bone moldering off, turns into a Sort of Callus, being by Length of Time afterwards as it were offify'd, and proving usually as strong a Fence as other Parts of the Skull.

And this is the Method to be observed in making way to the Brain, or its Membranes oppress'd, whether with or without a Fracture.

However, there being Fractures of this Bone of very differing Kinds, as we observed at the Entrance upon this Section, and calling for a diverse Management, we shall give you some farther short Instructions, for your Conduct relating thereunto, under the following Heads.

Cautions panning.

First, That if after Trepaining, you find any about Tre-grumous Blood or Matter upon the Membrane, not able to discharge it self by the Perforation, tho favour'd by the Polition of the Head for that Purpose, it may be requisite at sometimes that you make a fecond, in a Part more convenient for venting the same.

Secondly, That having perforated as before, and discovering neither Fracture, Fissure, or Extravafation upon the outward Membrane, nor yet upon the most diligent Examination, perceiving any other Part of the Cranium, which being bored, would be more likely to relieve the Patient, the Symptoms of Sopor or Delirium still continuing, the Membrane inflam'd lying high and turgid, with a Fluctuation as it were of Matter, perceptible underneath, the Case hereby grown as it were desperate, for the farther Relief of the Brain, you are to penetrate the Dura Mater, dreffing up as we have above directed, taking especial Care at these Times, that both the Syndon lying in the

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Perforation, and particularly the foft Dossils which are dip'd in the Cephalic Balfam, and let down upon the Pia Mater or Brain it felf, be ty'd fast with Silk or Thread, the Ends of which are to lie out of the Wound, for their secure Extraction.

Thirdly, Where there is Depression of the Cranium, provided the same be small, like the superficial Dent in some Pewter-Pots, the Patient young, without Convulsion, Delirium, Stupidity or other mischievous Symptom attending, you must not presently go to work with your Instrument, but treating the same as a Contusion, and Bleeding your Patient, let the Physician be call'd in, to direct what other Evacuation may be found necessary, leaving the rest to Nature, who sometimes of herself raiseth the same insensibly, or admits it there to continue, without farther Detriment.

A Gentlewoman, very nearly related to my HIST. 97. felf, has the most considerable Depression of this Kind, occasion'd by a Fall in her Infancy, that I ever met with all; there being Room to hide a Finger in the Dent, on the back Part of the Head.

But where the Depression is such, that both Tables being fractur'd, any Points or Angles of the Bone bear hard against the Membrane underneath, exciting those desperate Symptoms before enumerated, its then your Duty, without Delay, to call in Help, and to make a circular Incision of the Scalp, and taking out the Piece, which is here preserable to the cross or any other angular Incision, especially where the Compass of the Bone beat in is not exceeding large, which done, if the Flux of Blood will admit, you may try at the same Time to lift up the depress d Bone, if you have Room to enter your Levator, at the broken Edge, but if not, as is usually the Case where the Outer Table is

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broke off, the inner only bowed, or not fufficiently open to let in the End of your Instrument, you must then pitch upon some proper Place for the Trepan, and before you dress up, to draw your Knife femicircularly the Compais of a Shilling, towards the Edge of your Depression, taking at least fuch Compass, as that you may have Footing by the same, for your Instrument on the firm Part, raising up the Pericranium also, as you did before, in that for laying bare the Depression by your circular Incision above-mention'd: Then dressing all up dry, when the Day after, your Hemorrhage being fecur'd, you are to perforate the Cramium on the stable Part, for which you had made way, and through the faid Perforation carefully passing in your Levator, to lift up the Bone, dreffing the Membrane as we have before difcourfed.

Fourthly, In fetting on the Trepan, you must take Care that you shun the Sutures, contriving also, as far as possible, that your intended Bore may anfwer the Delign, both of railing the Bones funk in, and discharging any extravased Blood or Matter; that you may not, as taken Notice of before, Ive under the Necessity of Censure, by being obliged to repeat the Operation, which yet cannot sometimes be avoided, in order to difingage a Fra-Eture, where it happens one Part to be shot under another, or lock'd in thereby, after fuch Manner that I have in the like Case been constrain'd to bore in three distinct Parts, and at length to faw. off the Interstice, before I could relieve the Membrane, and take away the offending Fragment: All which a young Female Patient underwent, together with an Iron-Pin thrust through the Os Frontis, at which Hole a large Portion of the Brain,

at several Times, discharg'd, yet happily recover'd.

Hist. 98

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That Part of the Cranium also, above the Orbit of the Eye, is likewise forbid the Trepan, by reason of the Sinus under, as is that over the Longitudinal, also the inferior Part of the Occiput, opposite to the Fastenings of the Dura Mater on the Inside: Besides the Situation here would favour the Exitus of the Cerebel, as well as that of the extravasate Blood or Matter.

But I shall not farther enlarge, by giving Rules for the setting on of the Instrument, unless this farther one, that no Person attempt to meddle therewith, who has not first well acquainted himself with the Bony Compages, and whole Encephalus, or the Structure of the Cranium, as well within as without; as also of the Meninges, and the Brain invested by them: And for his farther Instruction, it may be necessary he frequently work with the Instrument upon humane Skulls, especially of Malefactors newly strangled, or others lately deceased, where such Liberty may be given without Offence.

Fifthly, In Fractures of this Bone, when you have made way for the Relief of the Brain, and reduced the broken Parts into their Places, such of them particularly as are not entirely feparate, you are to take Care that no more of the faid fractur'd Cramum be remov'd, than Necessity calls for, at leastwife any large Portion thereof, by which the Membranes, and sometimes the Brain it felf, may be exposed, at best the Cure protracted: For fince we fee daily, that other Bones, divided in like Manner, are united by Mediation of a Callus, Nature is as little wanting here, from the broken Edges, together with the Diploe or Marrowy Interflice, to provide a Cement for their Coalition, more especially in those we call Wounds of the Cranium, where darge Pieces are sometimes divided by a Sword or Scimiter. Scimiter, in close Engagements, and have been left adhering to the *Pericranium* and *Scalp*, which being replaced, and the external Wound stitch'd up, have after been found united as other *Compound Fractures*.

Sixthly, In Fissures proceeding no farther than the upper Table, if no Symptom appear, you may ragine the same till such Fissure becomes obliterate, and dress up as in other Hurts with a bare Cranium, we have formerly advised, where there is Necessity of Desquammation.

The like is to be observed for the Superficial Sedes, or Impress made therein by some pointed or

sharp-edg'd Instrument.

But where the Crack goes deeper, or through both, with bad Symptoms concomitant, you must carefully trace the same from its Rise to its Extent, if possible, that so you may be the better directed where to fix your Trepan, with greatest Advantage for the Discharge of Blood or Matter falling on the Membranes, and there exciting such Symptoms as aforesaid: Or if the Chink be large enough for the Purpose, the Operation may perhaps be spared, unless those Accidents are urgent.

Seventhly, In a Sedes penetrating both Tables, or from whence the Dura Mater is also wounded, and an Inflammation thereof arises, if the Orifice is small and insufficient, you may trepan upon the Part hurt, placing the Pin upon the Sedes, taking Care however that it enter not too deep, and that it be removed so soon as you have cut a Track through the first Table, or made a sufficient Furrow therein.

Lastly, In the Camaross, or vaulted Fracture, with an Arch at the Top, where the same lies high above the other Parts, as in forcibly drawing forth the offending Weapon, may fall out; you must endeavour

deavour the depressing such rising Part to its Place, raising up that which is sunk for releiving the oppressed Membrane: Which having done, if the said arched Part cannot be brought to co-incide with the rest, it may yet be more safely left to Nature, till separating from the same it may be taken away, whilst the Membrane underneath incarns, and is after cicatrised, as other Accidents of like Kind.

And this is what we thought necessary to lay down concerning the Fractures particularly of this Part, of which some of the Antients had such obscure Idea's about the Use of the Trepan, as to render the Operation in a manner desperate and perilous. Arcaus himself, the Author of that famous Liniment, or artificial Balfam, of which we have given fuch just Praise and Commendation, which still goes by his Name; this Person, I say, was wont to lay fo great Stress thereon, that by the alone Affiftance thereof, and his Plaister over it. he tells us that he had recover'd many of these fractur'd Skulls, some of which were deem'd deplorable and desperate, without meddling with any Instrument. But I would advise the young Practitioner nor to rely, after so unreasonable a manner. upon this Remedy, or any other Topic however excellent, as an Application to the wounded Parts; whether the Scalp, Cranium itself, or the Membranes underneath, where the fame are oppress'd, and the Symptoms argent, occasion'd by any Fragment of the Bone beat in, or extravaled Blood and Matter pent up, which make the Perforation of the Skull now absolutely necessary.

We have already advis'd that you take great Care of the cold Air, at your Times of Dreffing these Wounds; which, if in those where the Cranium only was bared, we thought very requisite, must furely be much more so accounted; where the

Mem-

Membranes covering the Brain, and fometimes this

latter it felf, happen to lie exposed.

The like may be faid of the Regimen, as to the other Non-Nat. which is most strictly to be obferr'd at these Times, and by Neglect whereof, some irregular People, who were before in a hopeful way of Recovery, have miscarry'd.

Fractures of the Nose.

Fracture of We shall next proceed, among particular Fra-Bones of the Etures, to observe some of those of the Bones of Nose. the Face, among which especially those of the Nose,

and Mandibles or Jaws.

When the former is fractur'd, you must do your utmost to restore the broken Parts to their former Site or Places, since a Blemish here particularly lest behind, is more discernible than others, and takes off exceedingly from the Beauty of the Face, which, if possible, as we said before of Wounds of the said Part, by all Means is to be preserved.

The Manner then of reducing these Fractures, is by the little Finger, where the same can be admitted, or with the End of a Pipe or Squere, arm'd with a soft Rag, thrust up the Nostril, and bearing outwards against the Depression, whilst with the Fingers of the other Hand, on the Outside, you settle the broken Parts into their Places: After which, to prevent their sinking down again, a small Cannula, or Hoop of Silver, sitted to the Cavity, may be introduced, to keep out the Bones, and at the same Time savour the Respiration: In the Use of which, you must be careful not to pass the same too high, which by continually irritating, would render the Patient uneasy.

This Pipe may have a thin Rim turning up a little on the outside Extremity, towards the Ala

Nafz,

Nasi, being perforate for the passing of a narrow Ribbond, which being drawn obliquely up, may

be fastened to the Cap about the Temples.

Where the Fracture is rather prominent, or the Bones thrust outwards, having with your Fingers gently depress'd and settled the same, your little Finger of the other Hand, or Pipe as aforesaid. on the Inside assisting you, and preventing their Subfidence beyond their proper Bounds, a Compress shaped to the Part, and dipp'd in Oxycrate cum Alb. Ov. must be laid over your Defensative, prepar'd as usually, ex Diapalm. Bol. Acet. & Ol. Rof. or a Couple of thin Splints, of pasted Paper first foak'd therein, and shaped so as may best secure the Figure of the Part hurt, afterwards fuch Deligation as the same will admit; concerning which, we must own, that the French are very curious, and in which, I think, their Excellency chiefly consists: Yet some of these also may be very well spared; the simple Roller regularly turn'd. so as to humour the Parts, oftentimes satisfying the same Ends: Or, as in the present Case, a Cloth with Perforations well adapted, and as many Slits or Tails as are found necessary, for the more commodious Fastening and orderly Compression; as every Artist may contrive upon the Spot.

Scultetus also has delineated many of these Bandages, in his Armament Chirurgic, which look very neat in the Sculpture, but some of them being reduced to Practise, I have found both troublesome to manage, and less secure, or more uncertain, than some plainer Contrivances for which I have changed them. Not that I would, by any Means, discountenance the Ingenuity of Invention, to answer these Purposes, whether of our own or other Nations, or find Fault with any such as have a real Use and Benefit accruing by their Application.

Fractures

Fractures of the Mandible.

Fractures of the Jaws.

The Fractures of the Mandible, I mean the lower, (the upper one being less exposed to these Ac-. cidents,) are reduced by putting the Finger of the one Hand into the Mouth, on the same Side, thrusting out the Bone which is beat in, whilst with those of the other Hand, on the Outside, you keep the adjoining Parts from starting, or if rising, pressing them down again, that they may lie upon a Level with their Fellows: After which, a Plaister Compress rightly shaped to the Bone, especially the prominent Part thereof, is to be laid on, with a Defensative covering the whole Jaw, and over that a Bolster dipp'd in Oxycrate cum Alb. Ovorum, and a thin Pastboard, or Paper pasted, shaped to the Mandible, and foaked in the fame. Laftly, the Bandage or Muffler, reaching from one Ear to the other, fastened to the Night-Cap.

And observe always in these Fractures, that your Patient carefully avoid the least Motion of his Jaws, drawing his Nourishment, which for some Time must be of the liquid Kind, through a Spout or Pipe let down into his Porringer, whilst the other End, being put between his Lips, the same

is leafurely drawn up thereby.

Farther, observe also that in the Reduction of this Fracture, if it so happens that the Bones are shot over each other, whilst your Assistant holds the Head sirm or steady with his Hands on each Side, you are to clap two or three Fingers on the Inside of the Jaw, directly against the Fore-Teeth or Incisores, and gently extend by pulling the same out towards you, till you perceive the riding Part to meet even with the other fractur'd Extremity,

which

which you are then to fink down into its Place, keeping your other Hand on the Outside, to prevent its slipping over the contrary Way, or at least some other Person for you, where both your own Hands are otherwise engaged in the Work.

Of the Fracture of the Clavicle.

The next I shall descend to, is that of the Cla-Of the Col vicle or Collar-Bone, which I have found the most lar Bone. frequently overlook'd, I think, of any other, till it has been fometimes too late to remedy, especially among the Children of poor People: For tho' they find these little ones to winch, skream, or cry, upon the Taking off, or Putting on their Cloaths, yet feeing that they fuffer the Handling of their Wrists and Arms, tho' it be with Pain. they fuspect only some Sprain or Wrench, that will go away of it felf, without regarding any thing farther, or looking out for Help; whereas this Fracture discovers it self as easily as most Others: For not only the Eye in examining or taking a View of the Part, may plainly perceive a bunching out, or Protuberance of the Bone, when the Neck is bared for that purpose, with a finking down in the middle, or on one fide thereof, which will be still more obvious, if comparing it with its fellow on the other side; but when the fame is more obscure, and the Bone as it were crack'd only, or a Semifracture as we fay, yet by pressing hard upon the Part, from one Extremity to the other, you will find your Patient crying out, when you come upon the Place, and by your Fingers fo. examining, fometimes perceive a finking farther down, with a Crackling of the Bone it felf.

Como of the Company o

As to the Reduction of this Fracture, it must be own'd the same is often easier replaced, than reretained in its Place after it is reduced: For its Office being principally to keep the Head of the Scapula or Shoulder, to which at one end it is articulate, from appreaching too near, or falling in upon the Sternum or Breaft Bone, it happens that on every Motion of the Arm, unless great Care be taken, the Clavicle therewith rifing and finking, the fractur'd Parts are apt to be difforted thereby: Besides, even in the common Respiration, the Cofta and Sternon aforesaid, where the other End of this Bone is adnected, together with the Motion of the Diaphragm rifing and falling, especially if the fame be extraordinary, as in Coughing and Sneezing, are able to undo your Work: Not to mention the Situation thereof, less capable of being fo well fecur'd by Bandage as many others.

All which duely consider'd, 'tis no Wonder that upon many of these Accidents, altho' great Care has been taken, these Bones are sometimes found to ride, and a Protuberance discovering the same, is lest behind, to the great Regret particularly of the Female Sex, whose Necks lye more exposed, and where no small Grace or Comelines is usually

placed:

In order now to the Reducing of this Fracture, or broken Coller-bone, having set your Patient on a Stool or Chair against the Light, so that you can come best at your Work, with an Assistant behind him, to keep steady the Head, whilst thrusting out that of the Scapula with one Hand, with the other you gradually sink of press down the rising Part, raising that which is deprest, till you find both the Extremes to lye even, and upon a Level: After which still keeping on your Finger, let your Plaister Compress, of sit size, be clap'd down heedfully

ly upon the rifing, over which your Defensative. next your Bolfter or Compress of Cloth, dipp'd in Oxycrate cum Alb. Over. fomewhat bigger than that of the Plaister Compress, and over these, a larger Bolfter of the like Cloth, covering all the rest ; When with your double headed Roller, placed first with its middle Part upon the Fracture, you make a Cross both before and behind, passing under the one Arm-pit to the Shoulder opposite, and Vice Versa, till you have finish'd your Circumvolutions. your Affiftant still keeping his Thumb or Finger on the Compress, the Shoulder also being kept out, till your Bandage is thus finish'd, when gently bringing the Arm down to the Side, let it be kept there in the same Posture as if it had been broken.

For the farther Security of this Reduction, and keeping out the Top of the Humerus, I have feen Ferula's of Tin, shaped to the Figure of the Bone. and being first quilted, laid over the same; others also of strong Past-board, and some of Wood: But I never found they answer'd Expectation, or that they were continued without Uneafiness and Diffurbance to the Patient: Wherefore I usually have contented my felf with the former Apparatus, ordering the Sleeve of the Coat and Wastcoat. to be ripp'd up, or fome loofe Garment to be put on, whereby there needs no pulling out or putting in of the Arm, in rifing or going to Bed, to the Hazard of Displacing the broken Bone: And in Children, to prevent any irregular Motion thereof, I have sometimes taken a Turn with the same Roller over the Outside of that Arm, and thereby kept it close down to the Side: Yet, as I have already observ'd, notwithstanding all imaginable Care, it will fometimes fall out, that the Points, especially of some untoward and oblique Fractures

Fractures of this Part, will start or ride, and make a Bump or Knot very discernible, which is still less to be wonder'd at, when befalling some peevith and froward Infants and young Children, as well as grown People, who think much to be confin'd, but will be lifting up their Arms, and stiring them about, having no Notion of their Connexion with the Part hurt, or Insluence of the same, before the Callus is fast, or the Fracture ce-

mented.

There is another Method proposed for the reducing of this Fracture, practis'd also in Replacing the same Bone out of Joint, which may be of Service when both Extremities are so deprest or beat in, that they cannot otherways be raised; and that is, by Laying the Patient in a supine Posture, or slat upon his Back, placing some convex Body, as a wooden Bowl or the like, betwixt or in the Hollow of the Scapulas, when the Surgeon stooping or kneeling, lays his Hands upon each Shoulder, forcing down the same, by which the Sternon being dilated, and rising withal, the deprest Clavicula is also forc'd up to it's Place: But this, as I remember, I never had Occasion to put in Practice more than once.

Of the Fracture of the Scapula or Shoulder-Blade.

of the Scapula, or Shoulder-Bone.

2018 1

This Fracture is much more intricate, either befalling its Spine, where the Force was direct upon
the same, upon its Neck, or its two Processes, the
Acromium and Coracoides, when from above, and
falls upon the Top of the Shoulder. In large
muscular Bodies these Accidents are difficultly
discovered, at leastwise so that we can precisely
say

Say what Part of the Bone is really concern'd, and how affected.

Tis true, upon strictly feeling round about, we may perceive a crashing Noise, as well as upon moving the Humerus up and down, upon which the Patient makes Complaint: We have likewise a farther Direction in meagre Bodies, as he sits or stands Naked before us, at least these Parts, by comparing the one exactly with the other; where if the Spine or upper Ridge be broken or beat down, we may observe a Subsidence, or as it were Falling in of the Muscles, which lye not up so full and round as on the other Side: Upon the Top likewise an Inequallity will be discoverable where the Processes are affected, some Parts bearing out, whilst others are sunk in.

Again, where the Neck of the Scapula is broke off (a Cafe I think not very common) the whole Arm must thereby not only be disabled in its Elevation, Circumrotation, and putting the same behind, but upon each Motion, whilst your Assistant thus moves the Limb about, if with one Hand you take fast hold of the Top of the Scapula, or its Neck articulating with the Os Humeri, your other upon its Spine, you may be the better enabled to make a Judgment whereabouts the Separation is, by perceiving the fractur'd Parts crashing one against the other.

We have already acquainted you, in the general Prognostics of Fractures, that those which are near to, or upon the Joints, are more mischievous than those which are farther off, and in this particular one, whether the same fall upon that of the Humerus entering, or the Scapular receiving the same into its Cavity, or admit the Processes only are broken off, the free Motion of the Joint may happen afterwards to be thereby some ways impeded, and

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stiffen'd by the Intervention of Callus, so as to hin-

der the regular Playing of the Bones.

In remedying therefore these Missortunes, where the Spine of the Scapula is broken down or depress'd, if the outer Teguments with the Superscapulary Muscles, as in some corpulent Bodies falls out, obstruct not, you must endeavour, with your Fingers thrust underneath, to elevate the same, which having replaced, with suitable Bolstering and Deligation, you are, as much as possible, to keep it up, which in lean Bodies is much easier effected.

The like in the broken Processes, and the Cervix Scapula, where good Bolstering about the Juncture, properly adapted to keep the divided Parts together, with convenient Bandage suitably contrivid, and manag'd for their farther Security when conjoin'd, is all the Artist has to do, and truly all he can, whose greatest Care must be to enjoin Quiet, and to obviate the Symptoms happening to arise, as by Bleeding, also directing a proper Regimen, particulary as to the Patient's Diet; and when he has done this, as becomes him, I see not any Injustice, that he should be paid for a Cure, in which, if the Work succeed, Nature rather than Art had the chiefest Hand.

Of Fractures of the Ribs.

Of the Ribs.

Somewhat related to these, at leastwise as to their Obscurity in fat People, are the fractur'd Costa or Ribs, which yet are accompany'd with more dangerous Symptoms of another Nature, viz. Fever and Instammation, from the Pleura underneath, the broken Extremities of the Bones pricking and offending that sensible Membrane, which is much increased by the continual Motion of the Diaphragm, straitening and again dilating the Cavi-

ty of the Thorax, in which these Parts have a confiderable Share under their as constant Exercise, by which their Consolidating is retarded, and the Symptoms of Pain, Fever, Cough, with Difficulty of

Breathing, kept up.

In reducing the fractur'd Rib, where the Ends protuberate, let him be laid in his Bed on the found Side, whilft the Surgeon gently presseth down the started Extremities, and if there be Depression, let the Patient at the same Time endeavour, by the Management of his Breath, to raise up the same: This not succeeding, and the fractur'd Angles bearing still against the Membrane, a Pitch-Plaister being apply'd upon the Edge or Border of the Depression, is suddenly to be rais'd or pull'd off, that together with the Skin, unto which it adheres, the Rib sunk down may also be listed up.

For this Purpose, a dry cupping Glass has been also apply'd, but by reason of the Assure of Humour thereby promoted, and the little Probability of elevating any great Depression, besides, as in the former Experiment, the Hazard of increasing the Inslammation of the Pleura, I think them scarce

practicable.

The Terebellum or Gimlet is yet more dangerous, since, by an Attempt to perforate the fractur'd Rib, you hazard wounding the Membrane close adjoining, and if you go not through, you will scarce have Hold sufficient to draw up the depress'd Costa; besides the Force used in boring, however carefully perform'd, is likely to sink the broken Bone down farther, if set near adjoining; much more so, if upon it, and if too remote, it will avail nothing: So that the last Remedy, all others failing, and the Pleura continuing prick'd by the Splinters, is by making Incision on the Intercostal Muscles, between

the subjacent, or, as may best favour you, the superjacent Rib, and passing in your Finger, or a crooked Instrument provided for that Purpose, through the same, you are therewith, bearing outwards, to force up and resettle the depress'd Bone: Dressing up the Wound, as we have shew'd among

the Wounds of the Breaft:

But indeed these Cases are very rare, I mean fuch as require this Method of Proceeding: For generally speaking, as we remark'd above, concerning those of the Omoplate or Scapula in corpulent People, the Defensative, proper Bolstering, and fuitable Bandage, when with your Hand or Fingers you have done what you can to replace the fra-Etur'd Parts, perform the remainder of the Work: Or in plainer Speech, Nature at these Times having done the Business, the Surgeon is paid for the same: I speak not this, as if I meant these Accidents were to be left to themselves, or trusted wholly to her Workmanship, but to intimate only. that when he has apply'd his Dreffings in the Manner aforesaid, the great Stress, in these Fractures. more particularly, lies then upon the Aid of the Physician, who by all means must be call'd, that by prescribing his Oily Draughts, Sperma Ceti Linetus's, with Pettoral Decottions, after free and repeated Bleeding, as the Cafe may require, the Cough which often happens upon these Accidents, and obstructs the Cure, at least when befalling those fubject thereunto, may be moderated, and the Respiration as well as the Expectoration render'd eafy; Balfamic and Traumatic Remedies, being likewise to be administer'd, much after the same Manner as were directed in our Discourse of Wounds penetrating this Cavity.

Fractures of the Sternon or Breast-Bone.

The Sternon, to which the Ribs aforesaid are an-of the nexed by a Synchondrofis, or Cartilaginous Medium, Sternon. being it felf of a grifly and springy Substance, is not so liable to be fractur'd, altho' by Force it may be beat in, at which Times the fame Method is to be put in Practice, that we laid down for the broken and depress'd Clavicula: I mean placing the Patient on his Back, with some convex Body under him betwixt the Scapulas, afterwards dilating the Thorax, by fuddenly pressing with both Hands on the Top of his Shoulders, which finking down, the Sternon is at the same Time elevated or raised up: But the fudden Force that must fink this Bone, at the same Instant intercepting the Respiration, so absolutely necessary to Life, and without which we can subsist but a few Minutes, is very like to destroy the Patient at the same Time it is impell'd.

"Tis true the Strength and Firmness of its Articulation with the Ribs is fuch, that by gradually laying on of Weights upon a flat Board placed on the Thorax, as the Body lies extended in the supine Posture on the Floor or Table, the same is capable of supporting an immense Weight, and to live thereunder for fome Hours: An Instance of this we had lately experimented upon one of our Malefactors, refusing to plead, who being thus extended fustain'd by Degrees 400 to Weight for near an Hour, and feeming, as it was thought, just ready to expire, in a low Voice desir'd to be releas'd from his Burthen, promising to plead, which was granted him; and the obdurate Miscreant, who had fo long held out under this lingering Torture, and seemed on the Point of expiring, begg'd for Re-

ipite.

fpite, tho' in a State doubtless enough miserable from the Effects of his Pressure, yet chusing now in this Condition to spin out a few Days longer, and then, (but in another Manner) to be strangled with a Halter.

Fractures of the Vertebræ.

Of the Yertebræ.

These Bones, whether of the Neck, Thorax, or Loins, being so firm and compact in their Bodies, are rarely fractur'd, or if fractur'd by reason of the Compression of the Pith or Marrow they contain, and the Office thereof, the Confequence must needs be fatal: But their Processes, especially the outward or Spinal, are liable to these Accidents, which falling out, the broken Spine is, if possible, to be raifed up into its Place with the Fingers, after which, a small Bolster-Compress, that may support it, must be placed on each Side: The like Defensative and Bandage being requisite at these Times as we mention'd for the Clavicula and Scapula broken: But if the Process is so divided, as I once met with it, that it separates from its Body, it either raiseth an Abscess upon the Place, and extrudes it felf thereby, or lying pricking in the Flesh, and creating Disquiet underneath, Incision may be made, and the Bone extracted.

Fractures of the Ileon and Coccyx.

of the Ileon and Coccyx.

The remaining Bones of the Trunk are the Ilia, called otherwise Innominata, that is the upper and Side-Parts thereof, which form the Pelvis: The Fore-Part is termed Pubes, the inferior Ischia, or Ossa Coxendicis; and indeed I think it is not undefervedly, that they have three several Appellations bestow'd

Bones, conjoin'd by an intervening Cartilage, eafily separable in Infancy, altho' offify'd as it were by

Age.

These Bones, I say, may happen to be fractur'd. as by great Falls from on high, lighting thereon upon hard Pavements; tho' it is not often, being better fecur'd by their own Solidity and Situation, and less expos'd to Injury or outward Violence, than most others: And requiring no particular Apparatus; but having by Comparison of the Hips and other Parts concern'd, inform'd your felf the best you can as well as by your Hands and Fingers, examin'd the Condition thereof, and adjusted the fever'd Parts: Time and Rest only, with your Defensative, also Bolsters properly plac'd, with your Bandage up the Twift and round the Waste, being, I think, all that is requir'd, or can be done at these Times, I shall pass them over, and come behind, where on each Side of the Ilia is placed the Os Sacrum, to whose lower Part is fasten'd another, or rather three or four little Bones, going by the Name of Coccyx, or Crupper-Bone, liable also to the like Accidents, which some rather chuse to call a Diflocation, but I think every Division or Separation, altho' of a Cartilage, by outward Violence, where there never was a preceding Motion, may as well be deem'd a Fracture, at least a Difjunction, as a Luxation or Diflocation, which in the usual Acceptation, implies a Bone out of Joint, and in which, before fuch Accident, there was a manifest Motion: But submitting this, whether the Bone be separated at the Cartilage, and I think these Bones are seldom elsewhere divided, they are usually beat in upon the Rectum, the Accident most commonly happening upon missing the Seat, going hastily to sit down, or where the same at unawares.

wares, and in rustic Sports, is hastily pull'd from under one, especially if the Stool was high, and the Fall sudden, from whence great Pain arises, creating much Disturbance to the Patient, especially upon his going to Stool, which he can hardly at all, at least but with great Dissiculty, discharge,

till the Bone is replaced.

In order to which, the Artist having oiled his Finger, and fometimes two, for their easier Admittance, must introduce them by the Anus, as in fearching for a Stone in the Bladder, is commonly practis'd, but with this Difference, that as in this last he bears them forwards and inwards to the Bladder, for exploring the Stone contain'd therein, to in the first he thrusts them outwards and backwards, feeling the depress'd Coccyx, till thereby he has forced the same back again to its Place: After which a Defensative must be apply'd, shaped with a Point reaching the Verge of the Anus, and a loose T Bandage of fost Cloth, made like a Belt to go round the Waste, with a Strap from behind, coming up between the Thighs, and fasten'd up to the same before: Then Bleeding your Patient, and confining him to the Bed for some Time. till the Symptoms of Pain and Inflammation are worn off, and that the Bone is again well fettled in its Place, when for some Time it may be neceffary for him, in fitting down, to have a Chair perforated, as usual for Children in their Needings, at least a foft Cushion hollow'd in the Middle, for the Ease of the Coccyx, or let the Patient in such Posture bear mostly on one Hip, shifting to the other, as he grows weary.

have met with, was in a Gentlewoman, who stepping hastily on a Marble-Pavement, where a Peafcot-Shell happen'd to lye in the Way, her Heels

flip'd,

flip'd, and she fell with great Force backward, with her Crupper-Bone against the Foot of a small Stool. tumbling over at the fame Time, which gave her fuch exquisite Pain, that she fell immediately into a fainting Fit: Out of which recovering, they went to raise her up, but she could not stand, without her Fit again returning: So that calling in more Help, she was carry'd up to her Chamber, and put into her Bed; where crying out of her Pain, by reason of its Situation, through an over Mode-My the neglected fending for proper Affiftance, chusing rather to rely upon her Midwife's Counsel, who, coming to her, perfuaded her fhe was only bruifed, and bathed the Part, according to her Judgment, with Brandy, after laying on a Poultice with some Herbs.

Yet, notwithstanding all her Endeavours, the poor Gentlewoman could get no Ease, but complain'd of a perpetual Needing to Stool, which she could not get rid off, altho' several Clysters by the Midwife had been used, which either could not pass, or came forth quickly after, re infecta.

Thus languishing for about a Week in great Torment, I was at length fent for, and coming to examine the Part, perceiv'd a large Echymofis round about, the Swelling being much funk, and going more narrowly to view the Appendage of the Sacrum, and lay my Fingers thereon, I found the fame depress'd or beat in, bearing hard against the Rettum: Wherefore dipping my Fore-Finger in Oil, I gently introduc'd it by the Anus, where I presently met the Obstacle, and with the same pressing outwards, and attempting to raise up the broken Coccyx, as I found it give way, I still bore harder, till I had freed the Intestine from its Preffure, when withdrawing my Finger there follow'd a copious Dejection of the Faces, together with fome some Parts of the Chisters thrown up the Day before.

Afterwards, laving on a Plaister of equal Parts Defensative and ad Herniam, I enjoin'd her to lye ffill and quiet, ordering her a laxative Ptyfan ex Decost. Pest. cum Manna, with a cooling Regimen in general, Almond Milks and Emulfions of the Seeds. Panada, Water-Gruel with Currants, and the like; I took my Leave: But the next Day was again fent for, the finding the fame Obstruction to the Paffage of her Stool, as at the first, and entering my Finger, as before, I perceived by the want of an early Reduction, the Point of the Coccyx fallen in again, as at first, which I could easily raise up. but perceived on the Removal of my Finger it fell again, the external Part being entirely separate, and hanging as it were by its Cartilage on the Infide, so that it would play backwards and forwards. giving way to be raifed up, and after, by its own Weight as it were, for want of Support, falling down again: For remedying the Misfortune. I contriv'd a Piece of Cork like a Pessus, which I wrap'd up in Silk, and thrust up as a Suppository, and which indeed, during its Stay, kept up the Tail of the Coccyx: But Nature, unused to fuch an extraneous Body, could not long bear it, before it stimulated the Sphinster to eject it; so that the poor Gentlewoman was forced to rest content, and at the Time of her Stool very frequently necessitated, with her own Finger, to facilitate the Exitus thereof, the Part now, after many Years, still continuing moveable, as at the Time I was first admitted to examine it: A necessary Caution for an early Enquiry into, and Redress of the like Disorders,

Fracture of the Patella or Knee-Pan.

The next of the particular Fractures we shall; take notice of, shall be that of the Rotula, called Patella or Knee-Pan. otherwise Patella, or the Knee-Pan, situate betwixt the lower Apophysis of the Os Femoris, or Bone of the Thigh, and the upper one of the Tibia, or

larger of the Leg.

This Bone, tho' finall and roundish, and withal one of the most solid of the Skeleton; being able to relist a smart Stroke of the Hammer, is yet at fometimes broken, by a feemingly more inconfiderable Force, and that both transverse, oblique and length-ways of the same, and requires truly as much Care in its Management, tho feemingly of less Moment, as any of the reft: Since by a Neglect to keep the fever'd Parts conjoin'd, an incurable Lameness frequently ensues: The Design of this Bone being for the more firm Articulation of the Thigh and Leg, and fecuring the Extremities of those Bones in their proper Places, more particularly in walking down a Precipice: And if the fra-Etur'd Parts should happen to flart or fly afunder upon their Reposition, a very great Debility must necessarily attend the Joint, and the intervening Callus at sometimes impede the free Motion thereof, if not entirely stiffen the same, as we observed in our Prognostic of Fractures befalling the Heads of the Bones.

The Transverse, upon this Account, is more dangerous by far, than the Longitudinal or Oblique, being more difficult to bring the divided Parts together, as well as to keep them fo after their Conjunction: The Muscles inveloping the Bone, as the excellent Hildanus has well observ'd, rather fayouring the Fracture length-ways, whilst the Heads

and Bellies of the same pull one Way, that is upwards, and their tendinous Infertions below upon the Tibia, downwards; whence, as the same Person descants, it will follow, that almost inevitable. Lameness must ensue the same: Which Missortune however, I have known feveral to have escaped, altho many of them have been deprived of a compleat Flexion; and fome, tho' walking well enough upon fmooth Ground, yet have been at a Loss in their going up and down Stairs, with their Feet interchanged as before accustom'd: But' to the Cure, when you have got your Patient into his Bed, with his Leg moderates fretched out, the same is to be held steady by your Assistants, the one above the Calf or about the Gartering below Knee, with his Hands encompassing the Limb on each Side, the other above in like Manner, whilst you, having before examin'd the Condition of the same with your own, bring the broken or separated Parts (betwixt which in the transverse Kind, I have sometimes found so wide a Clift, as to let in two of my Fingers) close together, which is best effected by your Thumbs below, and your Fingers above, then putting your Plaister-Bolsters, the one likewise at the Top, the other at the Bottom, close also to the Outsides of the broken Bone, you may lay on a couple of broad Straps of the adhesive Plaister, in the Form of a St. Andrews-Cross, fastening the lower End a Finger's Breadth or two beneath the faid Plaister-Bolster, and, keeping your Finger thereupon, pull up gently the Skin at the same Time, whilst, with those above on the other Compress, you bear downwards, and fasten the other End of the Strap at the like Distance there, proceeding cross-ways, as we said before, in the same Manner with the second: Then laying on your Defensative, which must encom-

pass the upper Part at least of the Joint, if not furround it, next a couple of narrow Cloth-Bolsters. three or four times folded, dip'd in Oxycrate cum alb. Ovor. and being express'd, placed also above and below, with one larger covering all; when with your double-headed Bandage, the middle Part of which is before-hand placed under the Patient's Ham, you bring one End obliquely upward above-knee to the right, whilft the other in like Manner is drawn to the left; and taking hold of each End with your Hands flid gently underneath. proceed as before below, thus decustating each, till the Whole staken up, unless that one Turn or two thereof the fpent in passing circularly, as well below as above the Joint, to the Edges of which, for the farther Security of this Fracture. I have sometimes caus'd four Tapes to be fasten'd. two to the upper, and as many to the lower, on each Side of the Patella, then bringing the fame by a Tye near together, as in Case of the dry Suture, so call'd, for Wounds, the two Sides of the broken Bone are brought also nearer and kept close.

In the Longitudinal Fracture of this Bone, the same Apparatus is to be got ready, only the fractur'd Parts being conjoin'd by the Thumbs placed side-ways, as before above and below, the Compresses and Bolsters, as well of Plaister as Cloth, being also apply'd after the same Manner, viz. sideways of the Joint, and the double-headed Roller managed, as we directed for other Fractures of those Parts, bringing one End one way, and the other opposite: But in room of this, after a few Days, I have sometimes made use of a laced Knee-Piece, by which I could straiten as I pleased, and by the Help of the adhesive Straps, and Bolsters apply'd on each Side, secure the fractur'd Parts

Parts in their Places; still taking Care, that during the Passing of the Roller, or Lacing on of the said Knee-Piece, an Assistant keeps his Fingers close upon the Application, to secure the Conjunction, shifting them as Occasion requires, to make room for passing the Bandage.

Monsieur Vaughion, in the Longitudinal Fracture

of this Bone, directs this following:

"Take a Roller of three Ells long, and two
"Inches broad, rolled up at each End, and ha"ving a Slit in the midft, to be apply'd on the
"Middle of the Fracture: Then pais one of the
"Heads of your Roller through the faid Slit in
"the Middle, fo that the faid Slit be in the
"Middle of the Rotula: Then draw the Roller
"pretty strait to keep the divided Parts together,
and cover the Bone with several other Circum"volutions of the same, leaving small Edgings all
"along; and lastly, keep all steady by several Circular Turns about the Juncture: When this is
"finish'd, placing the Limb in the Junks as usual.
But I think our own Method above proposed.

full out as good as this, and less troublesome.

At the second Opening, which used not to be with me till the Week's End, if the Dressings lay sinug and well adapted, the like Applications are to be renew'd; unless that in the Place of your Desensative, some moderate Cerate, as was directed in our Discourse of Fractures in general, be found expedient, the Fluxion being taken off, for the greater strengthening of the whole Joint; whilst, upon these Occasions, you confine him strictly to his Bed, for at least a Month: After which, the Callus being sast, some subrifying Application may be necessary, with which to anoint the Tendons of the Ham, if not all round about.

Nor let it feem strange to you, that I have taken up so much of your Time in laying down particular Directions for a Fracture of a Bone, to Appearance fo inconfiderable; fince by the Misfortunes of this Kind, many a flout Man has been made a Cripple, and many an upright Lady forced after to halt, who in all Likelihood had come off better, with a broken Leg, if not a Thigh: An Instance of which, for its Singularity, I will give you here, although I have not thought it worth while to enlarge by a Recital of Histories of others.

more common and less worthy Notice.

A Dyer's Child, at that Time aged about Thir- Hist. 100. teen, fince a Woman grown, whether upon opening or shutting a great Door, I have forgot, but the same going stiff, and too much for the Strength of her Arms, she, as common at fuch Times, clap'd her Knee with some Force thereto, after which she complain'd of Pain, and limp'd upon Walking, but over-looking it some time, at least contenting themselves with some Family-Ointment, the Swelling increasing, I was consulted, and found the Child crying out of great Pain, with a Contraction of the Tendons Sub Poplite, and large Tumefaction all round the Joint, in so much that she could not fuffer the least Enquiry or Handling, without grievous Complaints and Disturbance; so that going chiefly by the outward View, and perceiving the Figure thereof regular, I order'd for the prefent only an Anodyne Cataplasm of the Flor. Sambuc. cum Fol. Rof. in Latte cott. ac Mica Panis inspissat. embrocating first of all cum Ol. Ros. but the Fluxion notwithstanding increasing with the Pain, an Inflammation appear'd, threatning an Abscess: To prevent which, when I had used my best Endeavours, by Bleeding, Spare Diet and Emulfroms to contemperate the Heat, Clyfters also to exonerate

nerate her Bowels, and derive the Humours another Way, but ineffectually, suspecting Mischief now like to enfue, I defired some other Person might be advised with, and Mr. Blundel was fent for, who meeting me accordingly the next Day, and viewing the Condition of the Tumour, was for haftening Maturation, with the Poultice ex Ficubus. ac Rad. Alth. cum Sem. Lini Fænugr. and the third Day after he came again, when we discover'd the Tumour lying high and prominent, on the Infide of the Patella, under which the Matter now fluctuating, a Piece of the Velvet Caustic was laid on, and the same even I cut into the Eschar, whence a large Quantity of a laudable Pus discharg'd; upon which our Patient grew easier, and by embrocating the Ham, cum Ol. Lumbric. the Tendons gave way, al- . tho' by favouring the Limb, in a contracted Position thereof, that Leg was still considerably shorter than the found.

The Eschar separating, we met again, and upon Search discover'd the Patella bared of its Membranous Enclosure, feeling as it were ragged, with large Sinuosity all round the Joint, whence great Quantity of Matter-was daily supply'd; so that fearing the poor Child would fink under the fame. and that after all we could do, there would be Hazard of leaving a Fistulous Ulcer, we could make no other than a very dubious Prognostic: However. we first dilated upwards near three Inches on the Vastus Internus, which whilst we were digesting, as I was taking out the Dreffings one Morning, I perceiv'd the End of a Bone lye naked, on one Side of the Wound, having thrust it self out, and so loose that lying only entangled in the Flesh, I could easily extract the same with my Forceps: This I conceiv'd, (not furmifing the same fractur'd) must be the whole Substance of the Rotula or Knee-Pan, lepaseparated from its Covering, the Aponeuroses or Tendinous Expansions of the four Extensor Muscles of the Thigh, here inveloping the same, before their Insertion on the upper Part of the Tibia.

But resolving to justify my farther Proceeding, I dress'd up again for the present, with my Dossil dip'd in warm Liniment, laid into the Wound, a large Pledgit fac'd with the same on the Outside, also a Plaister-Compress on each Side of the Joint, gently to press forth the Matter, and prevent, as much as possible, any farther Sinuosity, or Mischief arising by Lodgment thereof; lastly, the Bandage so order'd, as might best answer the Intentions.

The next Day, by Appointment, Mr. Blundel and Mr. Salter met me at the Patient's House, when taking out the Dreffings, and perceiving the loose Bone still farther advanc'd, in their Prefence, and by their Approbation, I extracted the fame, and upon veiwing the Shape and Substance thereof, we all concluded there had been a Fra-Eture of the Patella, by which its upper Part had been obliquly separated from the under remaining behind: A Case, I think, rarely met with; no Part of the Substance being divided throughout, but cleft as it were in two upon the Flat, the upper Part, as aforesaid, rising and throwing off like an Exfoliation, leaving the remaining Piece behind, which never came in View, nor was discoverable by the Probe.

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This done, we made a farther Examination, and found a Sinus opposite to the first, running downwards on the Inside of the Tibia; but being of great Length, as well as Thickness, upon the Juncture, we resolved upon laying a Bit of Cau-fic below, a little beneath the Place of the Fonta-

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nel here commonly made, and to endeavour that Way to drain off the Matter, which accordingly. foon after the digesting out of the Eschar, anfwer'd our Expectation; the Discharge daily lesfening, and the Sinus, by the Help of Compress and Bandage, uniting upwards to the Wound, from whence the shiver'd Bone had been drawn forth. which quickly after healed up: But there remaining a Sinus still below the Place of this last Cauftic, and the Matter having no Vent by reason of its depending Position, otherwise than the same over-flow'd; after I had tried a few Days unfuccessfully to unite the same by the Compress, I clap'd in my Probe-Sciffars, and dilated about two Inches along the Inside of the Gastroecnemius, and putting hereby an End to this Discharge, healed the same foon after by Incarnation: When, believing my Trouble all over, I left her for two or three Days, giving Orders for lubricating the Tendons in the Ham, with a Liniment ex Ung. Dialth. ac Ol. Lubric. cum parte tertia Axung. Humana: Likewise to strengthen the Joint, and reduce the fame into better Shape, which was still much tumefy'd, immoveable and contracted, I fent a Perfon to take Measure and fit her with a Knee-Piece: But whether by the irregular Management thereof, drawing it too strait at first, or from some other Mischief still undiscover'd at the Bottom. her Pain increasing, I was fent for, and found her complaining of great Uneafiness on the Outside of the Knee, infomuch that unable to bear the Lacing of the Knee-Piece, the same had been thrown aside.

The Part looking somewhat inslam'd, I order'd it presently to be anointed with Ung. Sambue. and at Night laid on some White-Bread and Milk boil'd to a Pultis, and mix'd up cum Vitel. Ov. & pauculo

pauculo Croci: But notwithstanding, the Day sollowing I perceived the Pain with Tumour and Instammation increasing, with a new Phlegmon here also like to ensue; which, sinding a Necessity for the same, I forwarded as the first, with a Suppurative Cataplasm, and the Matter being made, which seemed to lye deeper than that of the former Absceps, I laid on a Caustic somewhat stronger, ex Lapide Insernali, and the same Day let it out in great Quantity from the personated Eschar, after which

the had a good Night.

The next Day I met Mr. Blundel, as every Day afterwards for near three Weeks, and making a new Enquiry by the Probe, as well as Examination otherways by our Hands, we perceived by the Looseness of the Joint, that the Matter had worked itself quite through, the Instrument passing from the Ulcer above, downwards towards the Ham; where feeling underneath the fame, tho' at fome Distance, was yet perceptible: A Misfortune truly of the highest, Consequence, admitting no farther Dilatation, threatning, if not Cariofity of the Bones of the Joint, however an incurable Fiftula, and by the continued Discharge, a Marasmus with a Hellic Fever, which had already seised upon her, and for which, by the Direction of Dr. How, her Physician, she was put into a Course of the Testarea, or Absorbent Powders, with the Asses-Milk; and having try'd, by fuitable Compress and good Rolling, to press forth the Matter, and unite the Cavity, but without answering our Expectation, giving also a Medicated Aq. Calcis to sweeten the Juices, and help forward the Work of Healing, I proposed in a Case growing daily more deplorable, the passing a large Needle through a Camula contriv'd for the Purpose, carrying a Flammula along with it, and that Way invite the Matter to take its

Course by a Vent commodious for its Discharge: To which Mr. Blundel (a Person, I think, through native Temperament, more timerous, in many of these Cases, than most others of so found a Judgment) opposed the Danger of those Nervous and Tendinous Parts lying in our Way, and likely to be hurt in the Operation: At length however, finding we should lose our Patient, if somewhat of this Nature was not attempted, he gave way, after we had try'd, by choaking up the Matter at the Top, to force it upon taking its Course downwards, and raising a new Abscess more convenient for emptying itself thereby: But all in vain, the Symptoms of Fever, Pain and Restlesness increasing, and the Matter, in spight of all Endeavours, still bursting through at the Top: So that coming one Morning with the Instruments I had order'd to be made, I passed down the Camula, the Extremity of which in the Ham, by bearing somewhat hard from above against the same, I could plainly perceive on one Side of the Tendon therein terminating; then entring the armed Needle, I forced its Point through the outer Teguments, between the faid Flexor Tendons of the Thigh, which drawing forth, and presently after extracting also the Camula by the same Way it had enter'd, I left the Flammula tied with two Pieces of narrow Ribbon at each End, and making a fingle Bow-Knot on the Outfide, which was daily moved in the Wound, first Imeared with my Digestive.

But notwithstanding this, such was the Intricacy of the Sinus, that the Matter for several Days still issued by the upper Orifice, and I began to be doubtful whether or no our Contrivance would turn to an Account, till observing the lower so much fill'd and distended by the said Silk or Flammula, as to interrupt the Exit of the said Matter

thereby;

thereby; when I had well digested the Wound, I passed up a small thin Piece of Gentian between the Silk, and thereby gradually ampliating the Orifice, found after few Days thus proceeding, that upon extracting the faid Gentian with my Forceps, feveral Ounces of Matter at length poured out, having made its Way as was defired: Hence finding fufficient Room made, I discontinued the Use of the Tent, and left the Flammula by itself. thinking it no longer needful, thus to choak in the Matter between the Times of Dreffing, but rather to promote its conftant passing off: And truly from this Time, our Work went prosperously on. the Passage of the Matter from above, being wholly cut off, and that by the lower Orifice daily leffening, our Patient growing also easy; so that after about a Month's Time from the Seton we had fo little, that I cut out the fame, suffering both Orifices to shut up, and put her on a Knee-Piece, that I faw well fitted and laced on my felf, and which she wore now with good Advantage.

The Joint, as was to be expected, continued stiff and much contracted, so that the Limb was thereby shorten'd near three Inches: To remedy this Defect, she had a Shooe with a high Heel, by which, and the Help of Crutches, the made a Shift togo about the House: And we were both of Opinion, that her Cure being confirm'd by a little longer Time, her Flesh and Strength also recruited, to as that she might be able to perform it, she should make a Journey to the Bath, which she did accordingly, with fo great Advantage, as to return, after about two Months Time, plump, fleshy, and with a good Complexion, the Tendons relaxing also the one Half of their former Contraction. · which gave her Friends fo great Encouragement as to fend her thither the next Season, with a still far-

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and Feet.

ther Benefit: So agreeable are those Waters in their Balfamic Properties, and kindly Warmth, to the Nervous Compages, especially assisted by a Youthful Subject, so that she now walks very tolerably, by the Help only of a Crutch-Head Cane.

By this Example we may fee how small an Accident did here fever this hard and folid little Bone, the one Part from the other, giving Rife to a Train of unhappy Accidents, which had nearly

proved fatal to the unfortunate Sufferer.

Having gone through the Trunk and larger Limbs, it remains that we speak a few Words of the Fractures of the Bones of the Hands and Feet.

Fractures of the Bones of the Hands and Feet.

The Bones of the Carpus and Tarfus, with the Fracture of the Bones of Metacarp and Metatars, being small and having the Hands more Solidity in Proportion than some of the rest, are more liable to be displaced than broken, unless by some violent Force and great Weight falling upon, and crushing them to pieces: Which happening, you are to endeavour, by moderate Extension both above and below, that is, at the Wrist and Fingers, or at the Ankle and Toes, to fet them carefully to rights, raising up those Parts which are depress'd, and finking down the prominent, comparing always the found Hand or Foot with the diseased, for your better Guide and Direction: Then laying on your Defensative, with suitable Compress of Plaister, upon the Parts requiring them, or fuch as are most likely to fly out again, over which your Bolfters of Cloth, dip'd and express'd from the Acet. Vin. & alb. Ov. Lastly, such Bandage as may both secure the Reduction, and avert

avert the Fluxion of Humour, to which the Hurts among these Tendinous Parts are very liable, and which truly require a strict Regimen, and as great Abstinence, to obviate the Symptoms of Fever, Inflammation and Apostemation, as those of the greater

Bones of the larger Limbs.

In these Fractures there is no Room for Splints, instead of which, Bolsters of Cloth, as aforesaid, shaped to the Parts, are to be foak'd in Oxycrate cum alb. Ov. and being wrung out, to be laid both on the In as well as Outside of the Part, afterwards carefully rolled on: Besides which, for the better Stay and Support, a Ferula of Wood or Tin quilted, or of Pastboard dip'd and cut suitably, may be contriv'd and fasten'd to the Palm of the Hand, as well as Soal of the Foot, which by keeping the same out flat, may prevent the Rising or Starting up of the broken Parts from their proper Places.

Fractures of the Fingers and Toes.

In the Fractures of the Fingers and Toes, having Of the Finmade a due Extention, and reduced the Bones, gers and you are to furround the same with your Defensative and Roller, of fuitable Length and Breadth, as in the larger we have directed, placing also a couple of thin Splints of Paper pasted, on each Side of the Finger, and refting the Hand in a Scarfe or Napkin; or if the Toe, confining your Patient to his Bed or Couch.

Study



SECT. IX.

Of DISLOCATIONS.

Ofteology A S at the Close of our Fourth Section conabsolutely. cerning Wounds in general, we earneftly exnecessary to the redu- horted the younger Practitioners of this Art, to the eing as well Study of Anatomy, or so far to acquaint themselves of Fractures with the Fabrick of the Muscles, and their Tenditions, with nous Origin and Termination, together with the a Person- Course of the Blood-Vessels, and larger Plexus or five to the Distribution of the Nerves, that they might thereby be able to foresee their Danger in performing thereof. any Chirurgical Operation, and consequently so far as possible to avoid the same: So I think I cannot better begin this, than by pressing their strict Acquaintance with the Ofteology, or Knowledge of the Skeleton; so far especially as concerns the outward Frame thereof, which is alike needful for him who goes about to fet a broken Bone, as well as one that is out of Joint: For as the Muscles or fleshy Parts of our Bodies, by the stupendious Artifice of the Great Author of our Beings, are geometrically both form'd and placed thereon, as fo many Vectes or Levers on their Fulcra; fo are thefe last, I mean the Bones, by the same supreme Archizelt, in their Conjunctions so adapted thereunto, as together with the Help of the Nervous Fluid, at the meer Nutus Anima, may mutually best answer the Ends of Station, Seffion, and Progretion of the whole, together with the Flection, Extension, and Circumrotation

tion of the several Parts, without which our Bodies would have been incapable as well of Liberal as Mechanick Arts, however our Minds had been suf-

ceptible of Invention.

Columbus indeed tells us of a Skeleton he had pre-Askeleton fented him by a Physician, in which from Head to Mithous Foot there was no Articulation, but one continued Jundary, offify'd Compages; that the Donor, Joames Bertonius, had seen the Person when alive at Rome, who was an old Man, and that he could only move his Eyes, Tongue, Penis, Thorax, and Abdomen, all other Parts of his Body being uncapable of Motion.

But these Instances are exceeding rare: Proceeding then to our Task, How, I pray you, Gentlemen, is it likely that any one should well reduce a fractur'd or broken Bone, who is unacquainted with the natural or proper Make, and Site of the same, before it happen'd to be so server'd, its Bearings and Bowings towards the Middle, with its Apophyses and Epiphyses at each Extreme? Whether one or more Bones, of what Make, and in what they differ (which I have known some so unskilful as to be unacquainted with) make up the stable Part of the Limb?

Again, How meanly qualify'd for Re-placing a disjointed one, must be be, who knows as little of the several Ways of their Articulation, or the Con-

junction of their faid Extremities?

Tis true, but I think not for the Honour of our Legislature, we want not those who are thus ignorant, and yet take upon them the Office of Bone-setting. The Plough-jobber in the Country, and the Porter here in Town, have been notorious enough for their Exploits of this Kind: And the many strumous, apostemated Joints, with Cariosity of the Bones, or other rigid, stiff, and distorted Members, constantly presented by the poor Crip-

ple to you for Advice, when 'tis too late, do fufficiently teftify what Sort of Cures these People

have perform'd.

But for the better understanding this Part of your Duty, while we leave this vile Set of Men to the Sting of their own Consciences here, and the Divine Vengeance hereafter, vou must consider The several that there are two general Ways of the Bones Kinds of Ar- Conjunction, the one for a manifest Motion, the o-

ticulation, ther more obscure, and sometimes none at all.

The former is termed Diarthrofis, which is fubdivided into three Degrees, viz. Enarthrofis, Arthrodia, Ginglymus, which we shall observe to you, in making Mention of the particular Diflocations; the latter Synarthrofis, also Symphifis, of which too there are fundry Kinds, as well with as without an intermediate Substance, and from the Nature of which are derived their Greek and Latin Appellatives.

Thus, where there is only a strait Line, it is called Harmonia; where there is Indenture, Raphoe, alfo Sutura; where one Bone is fix'd in another, as a Peg or Pin in a Hole made for that Purpose, Gomphosis; if fasten'd by Flesh, Sysfarcosis; by a Ligament Synneurosis; by a Cartilage, Synchondrosis; by a Tendon, Syntenofis; and by a Membrane, Synemenfis; of which also hereafter, when we come to the feveral Bones by these Means articulated.

But farther, Before you fet upon any Enterprize of this Nature, it is necessary you should be provided of your Applications, and other Parts of your Apparatus; fuch are your Defensative Emplafor Dislo- ster, the same as for the Fracture, large enough to encompass the Joint, to whose Flexure and Make it must be handsomely fitted, by Notching with your Seissars: Your Cloth Bolfters dipp'd in Posca, or the Oxycrate cum Alb. Ov. also a double or finglebeaded

Apparatus cations.

headed Roller, as may be requir'd, of much greater Length especially if for the Shoulder and Hip, than was wanting for the Fractures either of the Arm or Thigh, because of the Circumvolutions to be therewith taken round the Trunk of the Body. for the better Security of the Bones, upon their Reduction: Laftly, Your Affifants, as well by their Strength as Judgment too, where they can be had well qualify'd for the Work Or these failing. fuitable Instruments for the same; of which the Antients have provided fome, and which modern Improvements have made farther useful.

A late eminent Practitioner once told me, that he had never met with any Diflocation that requir'd a Machine or Instrument, or which was not reduce-

able by the Hand, artfully manag'd.

I must own, I have sometimes come after the Instrument, and succeeded by the Hand; but whether or no the Instrument had been rightly order'd. without which meer Force may do more Harm than Good, might possibly admit Dispute: But, doubtless, there are some stubborn Luxations, both of the Os Humeri and Femoris, in rigid, dry, and tough Muscular Bodies, which at sometimes call for greater Strength, than can be exerted by the simple Extension of the Hand, (without an Instrument) how artfully fo ever directed.

'Tis very certain that some of them are, in a manner wholly perform'd by Art, with but little Strength: But others want great Force, as well as Dexterity, to affift the same, by a strong Extension of the Limb. Nor must we forget to take Notice of the Counter-stretch, at least so far as may secure a Stedfastness in the Parts above, whilst you are pulling those below, without which this latter will be little effectual to accomplish the Work. And thus briefly concerning Diflocations in general; from

whence

whence we shall come to those of the particular Bones, wherein we are more directly to apply what we have now deliver'd in general Terms.

Dislocation of the Bones of the Cranium.

Dislocations incident to the Bones on of the of the Skull, whose upper and backward Parts are Cranium. conjoin'd by that Species of Synarthrofis called Sutura, as are those of the Fore-part, viz. the Upper Jaw and Nose, by the Harmonia.

To the Skull likewise, in some Sort, appertains the lower Mandible, to which, borrowing a Vertebra from the Neck adjoining, we may, I think, give Instances of almost all Kinds of Articulation before enumerated, whether for manifest or obscure

Motion.

Thus, as we have just now observed, in the upper and hind Part you have the Sutura; in the fore Part Harmonia; in the same Part likewise of the lower Jaw, before the same is offify'd, as in Infants, Synchondrosis; in the Teeth therein fasten'd, both Gomphosis and Syssarcosis; in the Joining of the Front and Sinciput likewise in Infants, the Synimen-

fis; these all under the Synarthrofis.

In the Hindmost Process of the lower Mandible, joining in the Sinus of the Os Petrosum, an Arthrodia; in that of the Foremost receiving the Tendon of the Musculus temporalis under the Os Jugale, a Syntenosis; in the said jugal Bone with that making the Orbit, a Sutura also; and lastly, in the upper Vertebra before observed, with the great Foramen at the Base of the Occiput, a Ginglimus: These, all but the Os jugale, under Diarthrosis.

Now the greater Part however of these Conjunctions belonging properly to the Cranium, being without Motion, and seldom liable to Dissocations

without

without a Fracture, of which in our last Section, we intend to quit such of them at this Time, and to touch only upon those of the lower Jaw, which has a manifest Motion, and is more liable to be

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We have already inculcated, that before you pretend to any of these Operations, or to go about the Reduction of a Bone out of its Place, you are thoroughly to acquaint your self with the Nature and Condition of the same Bone in its Place, and the several Ways it happens to slip out thereof, that you may the more readily go about the Work.

Diflocation of the Jaw-Bone.

By this Examination and Enquiry, you will of the los find, that we are now speaking of, I mean the er Mandilower Mandible, or Jaw, has at each End, where it ble. articulates with the Os Petrosum, two Processes; the one more sharp or pointed, called Corona, which, as before remark'd, entering under the Os Jugale, or Cheek-Bone, receives the Tendon of the Crotophites, or Musculus Temporalis, whose Motion it obeys in lifting up the Jaw, and shutting of the Mouth; the other Process behind, has a longish Neck, but flattish Head, and is named Condylus, by which, being cover'd with a Cartilage, as are all the other Articulations of this Kind, it enters a Sinus, or Hollow, excavated for that Purpose, in the lower Part of the Petrofum or Temporale, and is connected also by a Membranous Ligament; which faid Conjunction is, we told you, an Arthrodia, under Diarthrofis, or that for a manifest Motion.

But by this Situation it fometimes happens, especially in Gaping, Yawning, or thrusting any large Body,

Body, as an Apple, Pear, Plumb, into the Mouth; as also in Gagging, as they call it; by which the Fore-Teeth are much depress'd, the Process we called Condylus slips out of its Sinus forwards under the Jugal Bone; it being scarce possible, without a Fracture, that it should be luxated any other way,

fo well defended by those about it.

This Diflocation happens sometimes on both Sides, at others on one only: If slipp'd out on both, you will find the Jaw hanging down to the Breast, with the Fore-Teeth standing out beyond those in the Upper; the Patient being unable to shut his Mouth, or to speak articulately, as at other Times: There appears also a Straitness on the Temples, from the Stretch of the Muscles, viz. the Temporal, and their Tendons, which occasions Pain, and a Rigidity of the said Parts.

But if one Side only be luxated, the Mouth appears difforted, standing as it were a-cross, so that even by this Deformity, it is often conspicuous at the first Sight; especially where no Convulsion has preceded, that Part also being thrust forwarder than its opposite, hanging downwards, nor can the Patient bring his Teeth to meet, or if he could, will they stand direct, as formerly, against each

other.

In both Cases, 'tis usual farthermore to have the Mouth fill'd with Spittle, from a Compression of the Glands, in this Position of the Jaw, which

Separate the Salival Juice.

The Manner of reducing this Luxation, when both the Condyli are thrown out, is by placing your Thumbs on each Side, far back within the Mouth, upon the Dentes Molares, or Grinders so called, the Patient being on a low Seat before you, with your Hands and Fingers on the Outside of each Jaw, whilst your Assistant stands behind to hold the Head

Head steady, with another before to keep quiet his Hands; then pressing downwards with your Thumbs so placed, at the same Time you are to raise the Fore-part of the Jaw to its opposite the Upper, and you shall frequently hear the Condyli (if the Work be rightly managed) snap into their Places.

The like, if only one of them be displaced, when you are to make the Pressure on the same Side, as also the Elevation; in which you are to draw more to the one, till the Teeth stand even, and that the Patient is able to shut his Mouth as

before.

There is a Method recommended by some, as effectual, when the Diflocation happens on one Side, which is a good Slap on the Chaps: But waving this, as a very Empirical and rude Treatment, I think the less Rustick Usage, or more Artful, more like-

ly also to be fuccessful.

The same Author proposes a couple of little Pieces of Wood, in the Form of small Wedges. whose thinner Ends he places on the backward Teeth, as before directed for the Thumbs, with a Girth or Strap under the Chin; and thus whilft your Affistant, with his Knees upon the Patient's Shoulders, draws up the Girth, you are to thrust down the Wedges upon the Teeth, and bring the dislocated Jaw into its Place: But the Way by your Thumbs on the Infide, and your Hands affifting underneath on the Out, I think the furest Method; which are, however, to be defended by strong Gloves, or Rags wrapt round them, from the Patient's biting you unawares, as the Chin rifes, and the Heads of the Bone fall back into their Sockets.

A poor Woman, merely by the Force of Tawn-Hist. 102.

of the Maxilla, and knowing not the Meaning thereof, fent for her Neighbours; to whom, as well as she could, she related her Case, which was in a very abrupt Manner: Upon which they concluded diversly of the same, some saying it was a Convulsion, others would have her Planet-struck, with other like soolish Conceits.

They had call'd up feveral, pretending to Surgery, living near her, who either knew not what ail'd her, or at least which Way to help her: At length putting on her Cloaths, she was brought into the City, and recommended to a Person of more Judgment, who notwithstanding, after some unsuccessful (doubtless because immethodical or inartificial) Attempts, gave her a Curse, and turn'd

her out of his Surgery.

Coming hence, and despairing of Relief, in this Jaw-fall'n flavering Condition, upon her Return The was brought to me, who viewing the Nature of the Luxation, fet her down on the Ground, and having arm'd my Thumbs as aforefaid, giving Charge to one behind to keep her Head fleady. whilft I clapp'd each of them behind on the backward Teeth, with my Hands on the Outside for my farther Help in the same, as I therewith somewhat ftrongly depress'd them, and with my Palms and Fingers rais'd up, almost at the same Instant, the Fore-Part of the Jaw, the Processes on each Side very audibly fnapp'd into their Places, the Jaws meeting with the Teeth, in each, direct as before against each other, and so continuing of themfelves.

After this, I apply'd a Defensative reaching from one Ear to another, with a Muffler, as we directed for the Fracture of the same Bone: Giving strict Direction that her Nourishment consisted of Potables and Spoon-Meats, at least that she avoided all things

things

things requiring Mastication, or wide Opening of her Mouth, more especially at the Times of Yawning, to which she was much subject, moderating that Action all she could, and to turn her Head aside from those whose Jaws she happened to see thus occupy d.

Of the Teeth displaced.

In the Mandibles, or Jaws, as well the upper as of the the lower, are fixed the Teeth, as a Nail drove in-Teeth difto a Piece of Wood, which I think is the fingle placed. Instance of that Articulation we call Gomphosis, being farther secur'd also in their Alveoli or Sockets, by the Gums, which we called a Syssarcosis, of which also before.

The Diflocation of these Bones is usually voluntary, by way of Extraction with the Paces, Pullicans, or Punce, for relieving the cruel Pains they occasion, when cariated or otherwise attended by Fluxion of Humour: But sometimes accidental, as by Falls and Blows; at which Times, if they are only loosen'd in their Sockets, or if turned as it were half out, and hanging in a manner loose by the Gums, yet being immediately clapp'd down into their Places, they will frequently resettle, and grow saft as before the Accident.

I remember when by the Kick of a Horse, a young Girl had the lower Jaw-Bone fractur'd, there were likewise four of her Fore-Teeth displaced, one of which was lost, the other hanging with the Points of the Fangs upwards, by a Portion of the Gume

tion of the Gums.

She having shed her Teeth not long before, Hist. 103. and there being now but little Likelihood of a new Set to succeed, I was the rather willing to try the Experiment, and, if possible, prevent the De-Vol. II

formity that must ensue so great a Chasm left in View: Upon which, before I enterpris'd the Reduction of the Fracture, comparing the Sides of the diflocated Teeth with their faid Alveoli, and trying how they best fitted, washing her Mouth with a little warm Claret, and cleanfing away the Blood, I enter'd them in their feveral Stations. and closed the lacerated Gums about them with my Fingers: Then reducing the fractur'd Mandible, according to the Manner I have discoursed in the last Section, I directed a Gingilavium or Mouth-Water, to be used as a Gargle for these Parts. prepar'd of the Decoction of the Fol. Plantag. Equifet. Fol. Rof. Flor. Balauft. Cort. Querc. Gum. Maftich. in Part. aq. Aq. Fabr. O Vini rubri austeri, adding to a Pint of the Colature, Mel Rof. O Syr. e Rof. Sic. a 31.

And thus, whilft the broken Bone was uniting, the fuck'd her Nourishment through a Spout, paffing in at one Corner of her Mouth; so that by the Time the Callus was grown fast, she found her Teeth were so too, tho it was a long time before she could eat upon them, and they afterwards felt numb'd, as might be expected from the tearing the Nerves off from their Extremities, by the

Force at first displacing of them. .

Luxation of the Vertebræ.

Of the Vertebræ of the Neck, Breeft and The Vertebræ of the Neck, especially the upper, are likewise subject to these Missortunes, the less frequently than other Bones.

Neck, Breast and Loins.

These Vertebra, together with the Spondils of the Thorax, and indeed of the whole Spine, or Back-Bone, are the most eminent Instances of that Conjunction we call Gynglimus, that is, when the same Bone receiveth and is received of another:

Thus the descending oblique Processes of each Vertebra, receive successively the ascending Ones of those below them.

The first of them is Metaphorically called Atlas, whom the Poets seign supports the greater Globe, the World, on his Shoulders, as this little one, the Head, is upon this Bone, which in its upper Part has two Cavities, articulating by an Arthrodia, with as many Prominences at the Base of the Occiput.

The Second is called Epistropheus, also Cardo, the Hinge, for that by Means of its Dentiform or Tooth-like Process, entring a Foramen in that above, the Head is turned about as a Door upon

its Hinge.

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And when, by some outward Force, as Falls from on High, pitching especially obliquely on the Vertex, this Process is thrown out of its Place, the Neck, in the common Phrase, is said to be broken, when, if Relief be not had upon the Spot, the Patient most commonly dies immediately after, as in like Manner it falls out, if any of the other happen by like Violence to be distorted, the Face looks black, standing towards one Side rather than right forwards; he breaths with Difficulty, falters in his Speech, and if the Luxation be compleat, by the Compression thereby made on the Medulla, Paralyfis, Convulsion, Cold Sweats and Death soon terminates the Patient's Life: And to speak the Truth, in the Reducing of these Luxations, we are somewhat in the dark, by reason of the intricate Structure of the Parts, viz. the Intermixture of the oblique Processes, receiving and being again received of each other, or the Hazard of their Coaptation in their proper or natural Situation.

But it is not often, that we have Occasion to try our Skill, the By-Standers, with those nearest

at hand, being usually the Operators.

The

The Method however proposed, is to lay the Patient along upon his Back, whilft the Artist fits behind, with his Feet upon each of his Shoulders, then taking hold of his Head, with his Hands on each Side about his Ears, whilst he thrusts down the Shoulders with his Feet, he pulls the Head to him, drawing more especially from that Part to which it inclined, till, by the best Comparison he can make of its direct Figure and due Connexion, he hath settled the distorted or dislocated Vertebra in its Place,

Another Way, is to fet him upon a low Seat, and whilft the Affiftant lays his Hands upon his Shoulders, to keep them down, the Artist regularly lifts up his Head, passing it to or from him, as the Nature of the Case shall require, or perhaps Side-ways, till the Bone is settled therein.

By this it will plainly appear, that no one unacquainted with the Compages of the Bones, or the Frame of the Humane Skeleton, is likely to fucceed either in the present, or any other the like Accidents, happening to that Structure: Since it is found at some Times a very difficult Task, for one who is very conversant therewith, to accomplish his End therein.

These Vertebræ of the Neck and Breast are little differing from each other, the first wanting a Spinal Process, which, as some Anatomists remark, would have offended those two small Muscles of the Head, called the Obliqui Inferiores, in the ben-

ding the fame forwards.

The Five next have theirs divided into two, for the more commodious Infertion of the Ligaments that connect them: The transverse Ones are also shorter than those under them, and their Personations smaller, each growing still larger than that above it, till you come to the Seventh, reckoning from from the upper, which has only a single Spinal Process, like those below, where there is still this farther Alteration, that the transverse Ones have each a little Sinus or Dent, with which they embrace the larger Tubercle of the Ribs, whose other Extremity is fasten'd by a Synchondrosis.

to the Edge of the Sternon.

Their four oblique Processes we have mention'd before, which inosculating each other, form a Ginglimus or mutual Conjunction: On their Inside or Fore-Part they jet out a little, and on the outer or Backside are somewhat concave, having on each of their Sides forward a small Pit also or Impression, exculp'd for the lesser Tubercle of each Costa, whose greater, as we said before, were joined to the transverse Process.

As to their Foramina, the large One in the Middle, is well enough known to be for the Reception of the Pith or Spinal Marrow, besides which, as they join each other on their Sides, there is a Passage for the going forth of the several Pairs of Nerves, and the Entrance in of the Blood-Vessels.

both Veins and Arteries.

To come now to their Number, there are usually reckon'd seven to the Neck, twelve to the Breast, sive to the Loins, sive or six to the Sacrum, tho' offify'd in a manner into one by Age, and sour or sive to the Coccyx, terminating the same like a Tale turning inwards, and called vulgarly the

Crupper, or Rump.

Now the Conjunction of these Bones, by their several Synchondroses, being very close and compact, their Motion necessarily must be but very obscure, unless those of the Loins, whose looser Connection renders them better able to bend, and again raise up the Trunk above them; and these are the largest of all the rest, still gradually increasing till Q3

you come to the Sacrum, with which the lowest Joint; the backward Spines of these are likewise shorter than those above, and turned somewhat upwards, their jointing also being different: For as our Author, Dr Gibson well observes, as in those of the Thorax, the upper oblique Processes were knobby, and the lower hollow to receive them: In these there is the Reverse, the upper being hollow, and the lower protuberating, unless it be the last of the Thorax, which has both its ascending and descending oblique Processes excavated, to receive the Heads of the Processes of the last but one

of the Thorax, and the first of the Loins.

And thus having given you a Sketch of the whole Spinal Compages, whose Use is for the Passage of that Production of the Brain, which from this Part is here called Medulla Spinalis, whence by certain Tubuli, or fmall Pipes, the Fluidum Nervolum, or Senfitivum quid, is conveyed to the Trunk and Limbs, the Use of which being so noble and excellent, it will easily follow, that as in Hurts of the Brain itfelf, the Fountain-Head, there commonly enfue the most formidable Symptoms; so here likewise, if the Vertebræ happen to be fuddenly distorted, much more entirely luxated, this Second Brain, as we may call it, being compress'd, the Dispence of the said Fluid or Vital Energy must be intercepted, and confequently Paralysis, Convulsion, with a total Eclipse of the Animal Faculties come on prefently after.

This, I say, premis'd, I shall farther inform you, that when the Accident befals those of the Neck, the Sick generally looses the Use of one or both his Arms, as one or both Sides of the Spinal Marrow happen to be affected; when those of the Loins, the Legs in like Manner: And if the Compression be very great, his Urine comes away involunta-

rily, and there follows a general Resolution of all the Nerves below.

In order to the Remedying of these Accidents, where there is a Prospect thereby of saving the Patient, the Operation must immediately be set about, as above directed, making suitable Extension by the Head and pressing down the Shoulders.

In those of the Back and Loins, the Patient being laid prone upon a Table, the Extension is begun by two strong Men at each Armpit, whilst two others are making a Counter-Extension at the Hips, and the Artist, seeing a sit Time for his Purpose, forceth the distorted Spondil into its Place.

This simple Extension by the Hand failing, the Antients have proposed the same to be made with Pullies, and accordingly contrived feveral Machines or Instruments for that Purpose, which are to be met with in some of their Works, delineated in Sculpture; among which particularly those of Ambrose Parey, who farther adviseth, as Monsieur Vaughion also takes notice in his Chyrurgical Observations, whilst Extension is making, to wrap up a couple of Sticks in Cloth, and to lay them on each Side of the Spine, as the Patient lies along upon his Face, which must be so thick as to prevent any Harm to the Spinal Processes: This done, you take a Rolling-Pin, and with both Hands strongly force down the two Pieces of Wood, till the same bearing against the distorted Vertebra, drives it in betwixt its Fellows.

But this is only practicable in the Diffortion outwards, and then too I fear, but rarely with any Advantage.

When the Spondil is depress'd or beat inwards, the Case, if possible, is still worse, and the Patient Q 4

languishing, under some of the Symptoms afore-said, soon after dies: Tho' here also our Theorists talk of another Experiment, which is, by making Incision upon the Place, and putting the Trunk of the Body, as before, upon a Stretch, to take hold of the Spinal Process with a Pair of Forceps, and lift up the Vertebra that it may lye even with the rest.

But, I fear, I have already made too long a Digression, about an Operation so easily talk'd of, but difficultly, and I think, rarely put in Practise, or, if practis'd, so little Likelihood of Success to

attend the fame.

There is however another Sort of these Distortions I must just mention to you, I mean those which are made gradually by a Congestion of Humour, loofening the Compage of these Joints, and after protuberating, they occasion those bunched or crooked Backs we often meet withal; especially among weakly Children, and fuch we call Ricketty: Tho' I have known the same Misfortune to follow after a Fit of Sickness, by way of Metastasis or Translation, as also from Blows and Falls, when fometime after the Vertebra have born outwards, and sometimes one of the Scapula's behind, or the Breast-Bone rising before, makes an acute Angle with the Sides; by which the Cavity of the Thorax being straitned, and the Lungs not having their free Play, the Patient becomes Anhelous or Asthmatic, and very rarely fees Length of Days, at best spins them out with great Toil and Labour upon this Account.

Nor are we here wanting of Pretenders to the Cure of these Distortions, tho' the Performance has rarely, I think, if ever, answer'd the Pretence or

Promife,

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Chalybiats and Hepatics, with other fuitable Des obstruents, to open the obstructed Viscera, reserate the Tubes derived thence, mend the Chachetic State of the Blood, and invigorate the Muscular Fibres by the Cold Bath, which gives a new Spring to the fame, I have in some such Cases found very serviceable: But instead of cramping these infirm and tender Constitutions, with Steel Bodice, or Hooping them as it were with Iron, which disables them from those Exercises, so necessary for their Healths. and bettering their Habits, I have always advised the Parents or Relations of fuch Children, to forbear this cruel Ufage, and content themselves externally with a Pad of Cotton quilted, fo far as possible, to conceal the Deformity, and give them all the Liberty of Action they could bear; it being a flanding Maxim with me, that such as Nature in this wife has made Crooked, Art will never be able to make strait.

I once knew an impudent bold Pretender to these Cures, make a Demand of 200 l. of a Lady, for his Steel Contrivances and three Years Attendance upon her Child, whose Death I dare be consident had been thereby hasten'd, and the bearing out of the Vertebræ still farther increased, notwithstanding his warranting to make the Child

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Diflocation of the Coccyx, Pubes, and Ileon.

We have already observed, among the Fractures, the Disjunction (for so I chuse to call it, rather Coccyx, than Dissocation) of the Bones of the Coccyx, when Pubes, and the same, by some external Force, are beat in up-llcon. on the Rectum; besides which, we are told, that

Of the

Coller-

Bone.

at some Times, tho' we forgot then to notice it. as in hard Labours of Women with-Child, the Same Bone is forced outwards, the Offa Pubes being likewife disjoined, and those of the Hea Senarated from the Sacrum at the same Time: The first of which, as more pliable and yielding, carries fomewhat of Probability, but whoever confiders the firm Uniting of the other, by a Synchondrofis, or ftrong Cartilage, which requires a Knife. and often a Saw, to divide them at other Times, will find it difficult to reconcile this Report: Yet Hildanus, whose Judgment and Veracity were never, that I have heard of, called in question, af-Hist. 104 fures us, that he was sensible of the Disjun-Etion of these Bones, in the Delivery of his own Wife.

> But pretermiting these, which, if Fact, require only Rest and Quiet for the Replacing as well as Resetting, we come next to the Dislocation of the Clavicle or Coller-Bone.

Diflocation of the Coller-Bone.

This Bone, whose Use, as we observed among Chvicle or the Fractures, is principally to keep out the Shoulder from the Sternon, altho it serves also, together with the other Process of the Scapula, called Ancyroides or Corasoides, in its Conjunction with the Acromium, to prevent a Luxation upwards of the Humerus, has a double Articulation by Synathrofis, the one by its flatter Extremity with the Acromium, aforesaid of the Scapula, from whence, by some outward Force, it fometimes rifeth upwards and forwards; the other, by its thicker and more knobbed End, entering a little Pit or Impression formed for that End near the Jugulium, upon the Sternon or Breaft-Bone, whence also at sometimes

it starts, tho' not so often as its other Extremity, whose Articulation is more expos'd to these Accidents.

When that End next thereto adjoining flies off from the *Process* of the *Scapula*, the *Acromium* jets out, and the Patient cannot raise up his Arm but with Pain and Difficulty, which falls and is de-

pressed.

This Diflocation, or Disjunction rather, like that of the Fracture of the same Bone, is more easily reduced than retained, by reason of the slight Fastening which it has with the Processus: However the Method is much the same as for that, viz. by pressing out the Top of the Humerus, and bringing the two Extremities again together, after which, by your Plaister-Compress well fitted, with your Defensative and Bandage, as have been directed for the Fracture here situate, will be necessary to secure it from slying out again.

Mr. Cowper has intimated in his Writings, that this Luxation had been unobserved by most Authors; but, if I mistake not, those of any Note who handle this Part of Chirurgic Practice, especially among the Moderns, have taken Notice thereof: And it might seem strange, that a Case so frequently occurring, should pass unheeded by any

of them.

If its rounder and thicker Extreme is thrown up from the Sternon, for downwards it cannot fall, being secured by the subjacent first Rib, the Method for Replacing is the same, by thrusting out the Tip of the Scapula, thereby making way for sinking the protuberating Head into its proper Sinus, in the Sternon aforesaid; after this, by Compress and Deligation, to prevent its rising up again,

Dislocation of the Ribs.

Diflocation of the Ribs.

The Ribs, which are usually twelve on each Side, sometimes thirteen, at others, the rarely, eleven; the Author last mention'd says, he has observed twelve on the one Side, with but eleven on the other: These, I say, are also liable to a Luxation, by some outward Force impell'd at their Extremity next the Spine, it being scarce possible they should be this Way parted at the Sternon, where they require a strong Knife to divide them, and with which they are so connected by their Synchondrosis, as to make together as it were one continued Bone.

Tis true they will often protuberate, and together with the Apophyses of some others, particularly those at the Wrists and Ankles, appear knotty, as in the Morbus Anglicus Infantilis, we call the Rickets: But here the Sternon riseth also forwards, as well as the Scapula sometimes backwards along with them, making the Bunch both ways, as we have already observed; and for which, that I know of, there is no (at the least, Chirurgic) Cure.

But when the lesser Tubercle is forced off from its Sinus in the Vertebra, or the greater from the transverse Process with which we before acquainted you, it was articulate: If thrown outwards in thin People, or much emaciated by Sickness, it is perceptible on the Outside of the Spine, and must be gradually depress'd, and artfully replaced by the Hand and Fingers, after due Extension, sinking the same down into its Place.

Some propose, as the Patient sits upon the Ground, the Raising of the Arm on the same Side, above his Head, which at the same Time

elevating the Costa, makes way and facilitates the Reduction.

Others, pulling his Arm over a Door, suspend the Body thereby, by which the Thorax being raifed, the prominent Rib is now depress'd, by the

Surgeon standing behind.

Again, if the Luxation happens inwards, there will be a manifest Vacuity to be felt, by hard Preffing with your Finger on the Place it is flown from, with an Inequality round about the external Surface: The Pleura also suffers by the Extremity of the diflocated Costa, bearing hard against it. exciting Fever with Inflammation, Cough alfo, and

Difficulty of Respiration.

In order to redress this Grievance, having try'd by a gentle Extension, and done what you can by your Fingers; the Patient likewise enlarging the Cavity, by the Management of his Breathing, for your farther Affistance, as we have hinted in difcoursing of the Fracture of the same Part; but ineffectually, the Symptoms also urgent, the last Remedy is Incision, as we there also observed, and the Finger or Instrument introduced, to raise it up into its Place.

But these Operations, as I have already acquainted you, are rather Theoretic than Practic: nor is it often, I think I may fay exceeding rarely, we have occasion for the Experiment of this

Nature.

In the Joining of the Ribs I shall observe farther, that it is only the nine uppermost that have this double Articulation at the same Extreme, before observed in our Description of these Parts. viz. the one collateral to the fore Part of the Bodies of the Vertebra, the other to that of the transverse Process, the three lowermost being articulated fingly to the fore Part of the Vertebra, and touch touch not the transverse Processes: The lowermost neither having its Cartilaginous Extremity at the other End, fasten'd to the Rib above it, as the rest of those we call the Costa Notha: But its Extremity standing out, give Rise, as that curious Anatomist Mr. Cowper takes Notice, to a Part of the Musculous Abdominis oblique descendens.

Dislocation of the Sternon, and its Cartilage named Ensiformis.

Of the We have before made mention of the Depressered from of this Bone by outward Force thereunto Bone, and offer'd, at the Bottom of which, in its Middle, Xyphoides there shoots out a cartilaginous Appendix, called in Greek, Xyphoides, by the Latines, Mucronata, al-

in Greek, Xyphoides, by the Latines, Mucronata, alfo Enfiformis; which, by like Violence, is liable to a Subluxation or Depression, and by which the upper Orifice of the Ventricle or Stomach being offended, which is called otherwise Scorbiculum Cordis, by reason of the superiour and inferiour Plexus of the Stomachic Nerves here meeting, very dreadful Symptoms do arise, as Vomiting, Cardialgia, Convulsion, Inflammation, Gangrene, and Death soon after, if the Oppression be not removed before this last Symptom comes on, which is to be attempted, as we remark'd formerly of the Sternon or Breaft-Bone beat down, by laying the Patient fupine, or on his Back, with fome convex Body under the Shoulder-Blades, at their Basis; then suddenly, or by repeated Jerks, preffing down the Tops of his Shoulders, whilst an Assistant does the same with his Hands upon each Side of the Ribs, by which the Breaft being raifed, the depress'd Xyphoides rifeth also therewith: Cupping-Glasses and the PirchPitch-Plaister are here likewise in Use, to answer the same Intention.

Contrary to this, there are moreover frequent Instances of the same Bone protruding or thrust outwards, but here we have little Danger from the rising Cartilage, tho much from the Disease producing it, I mean the Ascites and the Hydrops Pestoris, of which it is only a natural Consequence, from the Distension of the containing Parts, by the Waters lodg'd in those Cavities, and admits no other Remedy, than what is directed for the Dropsy its Parent, with which it stands and falls.

But quitting of the Trunk, we shall now hasten to the Limbs: And first to that of the Humerus or Shoulder-Bone.

Diflocation of the Shoulder-Bone.

This Bone, I think, furnisheth more of these Ac-of the cidents, at least what may properly be call'd Dislocation, than all the rest of the Body, as being more in the way of Danger, both in Listing and other strong Exercises, as well as Falls and the like Casualties, when it is natural to throw out these Parts, for the Sase-guard of the Head and Face: And tho many Times a seemingly slight Occasion has given Rise to the same, yet we often meet with tough Work in setting them to rights, or reducing the Luxation thereof.

This Joint, you know, is compounded of the Head of the Scapula, or Shoulder-Blade, which hath a small Cavity, enlarged and made deeper by the Cartilage it is tip'd with, and the Apophysis or upper Part of the Os Humeri, called the Shoulder-Bone, cover'd over with another, and adapted to the said Cavity, by an Arthrodia:

Which

Which is when a fmall round Head is receiv'd and lodg'd in a superficial Cup or Hollow, fram'd for that Use by Nature, in the Formation of the Parts.

We have already taken Notice of the two other Processes of the Scapula, which, tho' not immediate-Iv concern'd in the Juncture, ferve yet by the Tendinous Infertions of the Muscles into the same, for the farther strengthening the Articulation thereof. and preventing the Head of the Humerus from flying upwards, particularly the Coracoideus or Coracobrachieus, which springeth from the Coracoides Process of the Scapula, and ends about the Middle of the Os Humeri: Likewise one of the Heads of the Biceps entering, which being partly Tendinous and partly Fleshy, ariseth from the other Process called Ancyroides, from whence descending by the Infide of the Head of the said Humerus, it meeteth with its Fellow, and both joining together, become a strong sleshy Muscle, which by a single, but large Tendon, is inferted on the Infide of the Head of the Ulna.

I need not tell you how often this Tendon has made my Heart ach, and I dare fay many of yours, when about to open the Mediana lying very obfcure and deep, and perhaps, do what you can,

directly over it.

For obviating this Danger, you will find great Advantage in the diverse Management of your Ligature, which as the Arm is extended, by drawing the same outwards in making your Circumvolution, you carry the Vein along with you that Way, as by the like Management thereof inwards, you shift it the like Distance from the subjacent Tendon, which if but a Straw's Breadth, is sufficient for a dextrous Performance of the Operation.

The like Alteration is effected, after making your Ligature, by taking the Patient's clenched Fift into

into your Right Hand, and turning the Thumbeither inwards and downwards, or outwards and upwards, as you fee best for your Purpose: During which Pronation or Supination thereof, if you lay the Fore-Finger of your Lest on the said Tendon, you will plainly perceive it to vary its Postion, and accordingly to distance the Vein above.

There is this Inconvenience will indeed attend the drawing off the Vein by the Ligature, from the faid Part, that after Removal thereof, the Orifice in the Vein lying now oblique from that in the Skin, the Blood diffusing in the Interstice raifeth a Sugillation, sometimes of great Extent all round about; yet that, altho frightful to the Patient, gradually wears off like the other Echymosis, from a Blow or Fall. But returning to our Subject:

The Humerus is liable to slip downwards, forwards, and according to some, tho' I think very

rarely, backwards also.

We do indeed at sometimes meet with the Head of this Bone under the Pectoral Muscle, but for the most part, or, speaking generally, it falls down between the Tendons of the Musculi Subscapularis and the Biceps externus, nesting itself in the Axilla or Arm-pit: In getting it from whence, unless Care be taken, as it comes to the Brims of the little Cup or Sinus in the Scapula, to lift it into its Place, it slips forwards through the irregular Extension, and makes that Luxation secondarily only: However, I think I may say modestly, that I have met with Twenty, first lodged in the Axilla, to One upon the Breast.

The Diagnostic Signs of this Bone displaced, are Diagnonot altogether to be inferr'd from an Inability to shoulder its usual Motions: For that sometimes will be ow-discounted ing to a Wrench or violent Distortion of the Li-

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gaments and Tendons: But looking strictly on the upper and outer Part of the Shoulder, you may, upon a very nice Inspection, perceive the Muscles to lie more lank and flaccid, than those on the other Side, exposed for that End also naked before you, having lost their Support the Head of the said Humerus, which bore them out, by which that Part lies now flatter, and less plump or roundish, than its Fellow; and even in full and corpulent Bodies, by pressing your Fingers hard in upon the Part, you will find Admittance for the same into the Cavity, which is now lest by the Head of the Bone, at least-wise feel the Edges of the Cup it has forsaken.

Again, If thrusting your said Fingers as strongly into the Axilla, whilst the Arm is carefully listed by an Assistant into an Horizontal Position, that is, the Hand and Fingers making a strait Line with the Head of the Scapula, you will feel the Apophysis of the said luxated Humerus, like some hard and solid Body, lodged therein, and denying that easy Admittance you may find in the opposite

Armpit.

A further Evidence of this Luxation, is the Patient's Elbow bearing outward from his Side, to which he cannot fusier it should be brought close without great Pain, nor will it be retained in that Figure, being kept out by Means of its Head lodged as aforesaid in the Axilla; by which he is enabled much easier to move his Arm backwards, than to bring it forwards to lay the lame Hand upon the sound Shoulder, or his Fingers to feed himself: Nor did I ever know any one under these Misfortunes, that without the other Arm, or some Assistants to support it, was able to keep the same without saling down again involuntarily, upon a level Extension, altho brought up for him by rai-sing

fing it, as a Trial, into the same; much less, if higher elevated: And this not through any Defect in the Levers the Muscles, but in the Stay or Ful-

crum, to support the Pondus they lift up.

But besides this Enquiry of the Surgeon, the Patient will often complain, that he feels somewhat unusual and hard in his Arm-pit, and comparing his Arms as they hang down by his Sides, the lame one will be found somewhat longer than its Fellow.

As for the Prognoftics of this particular Diflocation, if the same be recent, and proper Help administred, 'tis very rare, I think, but that either by the simple Extension with the Hand, or the farther Aid from Instruments well managed, we fucceed in the Enterprize: But where the Case has been for some Time overlook'd, or when by the Symptoms of Fever, Inflammation or Fluxion attending, forced to be delay'd, there will be found the greater Difficulty, and Hazard of Speeding in the Undertaking: Yet at two Months from the Accident, I have reduced this Bone, though the same had been twice before ineffectually fet upon. and the Patient, after Length of Time, retriev'd as good Use of the Limb as before. I cannot fay. in Thirty Years, that I have known more than Two who have failed of their Cure, by some Means or other, where I have been concern'd; and one of them, I think verily might have had hers, if, through Peevishness at a Miscarrying in the first Attempt, she had not oppos'd a second Effort by other Methods and farther Affiftance, in order to her Relief.

There is another Sort of these Diffocations, happening at some Times, but I think oftener befals the Joint of the Hip, from a Congestion of Humour loosening the Ligaments, by which a Subluxation

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happens, when the Head of the Bone comes down even as it were with the Tip of the Cartilage; or a compleat one, falling quite out: And thefe are Cases truly deplorable; for tho' you may meet with no great Trouble in reducing the prolapfed Apophysis to its Socket or Cavity; yet, by reason of the relaxed Ligaments, it flips presently out again. But now to the Cure:

There have been many Ways invented for the Several Ways of Re-Replacing this Bone out of Joint, as well by the duction without an Hand as Instruments, which in some robust or strong Muscular Bodies, whose Fibres are over tense, dry Instrument. and rigid, are oftentimes requir'd.

Of the first Sort, i.e. by the Hand, I have often

practis'd the following, with Success.

When by Enquiry as above, you have fatisfy'd your felf that the Head of the Humerus is displaced, and lodg'd in the Axilla, you are to fet your Patient upon a Stool or Chair, one of your Affiflants flanding over him, with both his Hands to press down the Scapula, that it may not rise with the Head of the Humerus, whilst another on the Side opposite, puts his Arm round the Patient's Body, with his Hands towards the Arm-pit, whose Office it is to make the Counter-Extension, pulling the Trunk of the Body to him with all his Strength, whilst a third is ready with a Napkin turn'd round above the Elbow and twifted, fetting his Foot against that of the Chair or Stool, for his better Stay and Exerting himself in drawing out the Arm, a fourth grafping also with both Hands at the Wrist below, and affifting in the intended Extension.

These being all set, and ready at their several Posts, let the Arm be raised in a strait Line with the Top of the Shoulder; then order that both the Extension and the Counter-Extension be begun, at first first more gently, that if the lesser Force will do, the greater may be avoided, and the Limb Jess weaken'd thereby; whilst your self standing on the Outside of the Arm, with your Fingers close up in the Axilla, and your Thumbs on each Side, to observe the Motion of the Bone, and guide it coming forwards, which so soon as you can get behind the Head thereof, you may facilitate; and bringing it even with the Brims of the Scapula, kept down as aforesaid, raise the same up to its Socker, into which it will sometimes very audibly knap or cluck.

This Way by the Hand and Fingers, is not only the fecurest of all others, but, if your Extenders are well qualify'd for the Work, (as well in Strength as Capacity other-ways) as likely to succeed as most others, by the simple Extension or manual Undertaking only.

Mr. Wiseman, at these Times, orders the Elbow with the Palm of the Hand turn'd outwards, to be brought suddenly towards the Spine of the Back, with the one Hand, whilst with the other in the Axilla, the Head of the Humerus is raised, an Assistant keeping down the Scapula to receive it.

If the Head of the Bone is thrown forwards upon the Breaft, the Elbow is order'd to be held down in like manner to the Spine, whilst the Artist, with his Hands, forceth back the Bone into its Place.

How far these Methods may succeed with Children and young People, of a laxer Frame, whose Muscular Fibres are more ductile, yielding, soft and pliable, I shall not dispute here: But in hard labouring and strong Bodies, where the said Fibres are more tense, and the Muscles themselves, as we say, brawny, more Assistance and greater Strength, I am sure, are generally wanting. I have,

ris true, in these tender Subjects, sometimes replaced this Dislocation, by turning in this manner the Hand behind, with the Palm outward, which Motion naturally throws the Head of the Bone forwards, so that only laying my other Hand on the Top of the Shoulder, to keep the same from rising, the Bone has slipt in without more to do,

or any farther Trouble.

Another Way, When the fame is thrown down far into the Axilla, requiring still greater Force to dislodge, is with the same Affistants, placed as in the first Apparatus, unless that the Patient be set lower, if not all upon the Ground, by taking into your own Hands a ftrong Napkin, in the Middle of which a fmall Globular Body, as a Ball, for Want of which I have fomerimes used a common Washball, is wrapp'd up: This being placed against the Armpit, the two Ends of your Napkin thus folded, are brought close up on each Side thereof, and after the Extension and Counter-Extension are begun as formerly, so soon as the Head of the Bone gives way, and is moving out, with both Ends of the faid Napkin rightly manag'd, without wriggling to either Side, you are forcibly to lift up the fame in a right Line, left otherwise drawing more especially inwards, as it comes out, it slip forwards under the Pectoral Muscle, (a Case I have known fall out) till you hear the disjointted Bone slap into its Place; or if you hear it not, by reason of the Patient's Roaring, or other Noise about you, yet may you inform yourself quickly that it is there arrived, by the Patient's Indden Ease, the Cavity in the Axilla being now clear and free from its late troublefome Gueft, and the Hollow on the Outside of the Scapula again fill'd up, the upper Part of the Humerus appearing round and full as before, or like its Fellow: He

can.

can also now bring his Elbow close to his Side. without complaining, and his Arm forwards as well as backwards.

In this last Way of Reduction, if greater Strength be required, in the Place of a Napkin, a Leather Strap like that of the Shooe-makers, or for Want thereof, a narrow Horse-Girth is made Use of, the Ends of which (having first gaged a proper Length) being ftrongly fasten'd together, the Patient's Arm is put through, but first of all. the Ball as before-mention'd wrapped up in the Napkin, must be thrust close up to the Axilla, and the Ends of the Cloth or Napkin, in which it is wrapp'd, fpread on each fide, that the Strap or Girth may not offend the Arm: Then fixing steadily the midst of the lower Part thereof, upon the faid Ball under the Arm-Pit, put also your own Neck, and, if you please, one of your Shoulders through the upper Part, when flooping just over your Patient, with the Flat of your Hands resting on the Top of his Shoulder, instead of any Affiftant thus employ'd in the other Way of Reduction, whose Place you not only well supply, but augment very much your commanding Power in the Elevation.

Thus ordering the fame, as we have already above directed, to foon as you perceive the Top of the Humerus to advance, (it being to no purpose sooner) raise up your Body with the Strap upon your Shoulder forcibly, and you shall frequently hear the Bone cluck into its Place: At the fame Time it will be also convenient, that an Affistant, with his Hands on each Side the Axilla, secure the Girth or Strap from slipping off the Ball, and the Head also of the Humerus slying elfe-where.

The last Method, without an Instrument, which I have practised, and by which I have reduced, or, (assisting at the Reduction by others) seen reduced, some of these Missortunes which have been thought irretrievable, because the Instrument had not succeeded, is that by the Heel, which has not often failed me.

In order to this, your Patient is laid along fupine, or upon his Back, on a Quilt or Blanket foread upon the Floor, naked from the Waste upwards, at least on the Side affected, as he is to be in all the other Ways of Reduction: When fiting down close by him, with your Head towards his Heel, let an Affiftant fit behind, with the Sole of his Foot (having taken off his Shoe for the Work) upon the Patient's Shoulder, having the two Ends of a ftrong Napkin, in the Midft of which the Ball is wrap'd up, and placed in the Arm-pit, as before, in his Hands, whilst a third Person is employ'd to keep the Body steady: Then clapping your own Heel of the same Side, close up against the Ball in his Arm-pit, with your Hands at the same Time taking fast hold above his Wrist; and thus prepar'd, whilst your Assistant above helps in the Counter-Extension, you with your utmost Strength are to pull downwards, drawing thereby the Head of the Humerus out of the Axilla, thrusting your Heel against the Ball, and finding it give way, turning the fame a little outwards, you will throw the Bone into its Socket, and accomplish your Work: After which you must immediately slacken your Extension, lest, by over-halling the Ligaments and Tendons, you render the same incapable of keeping its Place.

In these two last Ways, by the Girth and Heel, the Artist has certainly a vast Command in exerting of his Strength, whilst his Hands, resting on

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the Shoulder in the first Way, are, as it may be said, a Fulcrum or Stay, on which he is able, by means of the Girth upon his Shoulder, to raise up the Body together with the impending Weight: The like of the thrusting one Way with the Heel, and the Arms drawing to the contrary: From whence, as our late Mathematical Physicians have laid it down as a Proposition indisputable, That the whole Strength of an Animal Body, is the Force of all his Muscles taken together: So may we infer, That almost, if not the Whole, of the Muscles of an Humane Body are at these Times in Act.

Now if, as one of these Gentlemen asserts, the Flexor Policis, singly taken, be equal to 3720 to Weight, to what an immense and incredible One must that of the whole Number amount! Ha-

stening now again to our Subject.

These, I think, are the most usual Methods of Replacing this Luxation singly by the Hand, or without any Instrument, which, if well order'd or manag'd by Assistants used to the Work, all, if they could be had, Professors of the Art, much Pain and Risque, or Hazard by those Instruments might often be avoided: For, as before remark'd, altho' great Force be oft requir'd in the Extension, yet that singly without Art conjoin'd will not avail; and you may tear the Limb from the Trunk, before you replace the Joint, if unskill'd in enterprising or going about the same.

For Instance: If your Ball in the Axilla be not duly plac'd, and the Elevation of the Head of the Bone prolapsed, as rightly timed to suit its coming even with the Brims of the Scapula, by raising sooner, you only lift up the Neck of that Bone, and by deferring longer, or lifting out of a strait Line, either slip it under the Breast, or tear the Fibres to no purpose; whence, if it be afterwards

replaced,

replaced, there may, thro' the great Weakness of the same, be Hazard of its falling out again, as in that arising by Congestion, before also taken notice of.

One thing farther I thought proper to intimate, in some of these Ways of operating, particularly the first; that the Persons employ'd in making the Extension secure to themselves a good Footing, by which the same is carry'd on with double the Force it would be otherways: And farther, that when the Luxation is forwards, no Ball or other Globular Body be thrust into the Armpit; but having made the Extension a little oblique, rather drawing from the Breaft, than outright from the Axilla, let the Surgeon with his Hand forward the Return of the Bone, whilst another, with a fingle Napkin underneath, lifts it up, as it comes towards the Arm-pit, into its Socket: In a Word, whether the Extension be made one Way or another, so soon as you discover the Bone sufficiently advanced, the sudden Sinking of the Elbow to the Side, by the Extenders, contributes as much as any thing to thrust the Bone up to its Place.

Several Inftruments for Reducing the Humerus.

The Infiruments used for the same Work are the Coulftaff or Lever, with a Wooden Ballsixed on the Middle to enter the Hollow under the Arm, also a Wooden-Pin on each Side to enclose the same; and whilst the Limb is, as in the first Way of Reduction, upon the Stretch, the Instrument is raised by a couple of strong Men, in order to throw it up again to its Place.

But this Instrument, by reason of the Mischiess thereby ensuing, such as the fracturing or snapping off the Head of the Humerus, is not in so much Request now, as in Times past it has been: I must own I have formerly used it, but confess I prefer

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the Ambi thereunto, which is the safer, and when duly manag'd as seldom fails of Success as any; the here also it is possible for an Accident of like Nature to happen, by the too hasty and violent Pressing down of the Arm, before the Top of the

Humerus is brought out of the Axilla.

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The Skrew with the Crutch-Head and Turniket, is a later invented Instrument, and accounted surer by some, as well as safer than the Ambi: And where the Bone is beat into the Arm-pit, that all other Ways seem less likely to effect the Work, or where the latter have been attempted in vain, as in some whose Muscles are exceeding tense, or in the squalid, tough, and, as they commonly name them, raw-bon'd People, the Crutch with Jack and Pullies, called the Tackle.

This is an Instrument in the Form of a Crutch, for the Convenience of carrying, made in two or three Joints, the Crutch-End having a Wooden-Ball rising out in the midst of its Hollow to thrust under the Arm, like that on the Skrew before mention'd, with an Iron-Spike at the other Extreme for its

steady fixing on the Floor.

In the Use of these two last, contrary to the Ambi, where the Patient sits down on the Side thereof, he is now standing and supported, whilst the Head of the sloping Crutch being placed in the Hollow of the Arm, and there kept close by the Surgeon, the Hand or Wrist is brought down by the Side of the same, being first well defended by soft Cloths, from galling or being chased in the Extension, and made secure by proper Ligature to the Pully, fasten'd also below to the Floor, by which you draw out the Limb as you please, and being come out far enough, raise by the Head of the Crutch into its former Seat.

These Instruments are all so common now, especially in London, as to need, I think, no other Description; but in their Management I must again inculcate, that it is highly necessary some expert Proficient at this Work, or good Artist, should be always placed at the Head of the same, with his Hands about the Arm-pit, that, as he finds Occasion, he may alter its Position, slackning the Turniket a little for that End, and taking the Nick, as we say, of Time, perceiving the Apophysis coming out, by suddenly ordering the Arm to be depress'd, he lifts up the Bone, as aforesaid, to its pristine Seat.

There are besides these now mention'd, several other ways of setting a Shoulder out of Joint, made mention of also by famous Authors: Such as hanging the Patient by the lame Arm over a tall Man's Shoulders, suspending the same upon a Door, or the Rounds of a Ladder, and hastily with-drawing the Chair or Form on which he stood; by which they tell you, that the Head of the Shoulder-Bone is not only drawn out of the Arm-pit, but raised also at the same time into its Receptaculum in the Shoulder-Blade.

But these and such like rustical Experiments are fit only for *Plowmen* and *Porters* to put in Practice, who neither know when a Bone is out, altho' representing every Accident to be so, neither yet how to put one in that really is out; but practise these with the like rude Feats by way of Amusement, to delude the Populace.

To proceed, and it is, I think, time, supposing the Work of Reduction, by one or other of the former Methods, finish'd, and the Joint set to rights, your Defensative and Bandage, as for the fractur'd and distorted Clavicle, are to be apply'd: A small Ball, or other somewhat softer but roundish Body,

being

being first placed close in the Axilla or Arm-pit, wrap'd up in a Cloth, the Ends of which are brought slanting over the Top of the Shoulder, whilst the Elbow, after finishing your Bandage, is likewise close down to the Side, which if well secur'd in the Posture, 'tis scarce possible for it to relapse: Upon which Account, as a Turn or two may be made round the Arm at the Conclusion, to keep that Dressings smooth, so likewise may it not be amiss, to take at least another over the Outside thereof, quite round the Trunk, that may inclose and secure it in the said Position, that heedlessly or at unawares it may not be raised thence.

One Caution more I think necessary to give you. which is, that in the Use of Instruments particularly, and indeed in the common simple Extenfion, you always take Care that the whole Arm above; as well as below the Elbow, and especially round about the Arm-pit, where the Head of the Instrument is placed, are well defended by fost Cloths, from being injur'd by the fame, together with the Ligatures ty'd round about, to fasten the Limb thereto, for its being thereby extended: And having compleated your Work, let the same be. pin'd up in a Scarfe or Napkin, observing upon all these Occasions a due Regimen, by Bleeding and a spare Diet, to prevent a Fever, Inflammation and other Accidents supervening, where great Force has been used in reducing the Luxation.

At the fecond Opening, sooner or later as you find Occasion, you are also to take Care that the whole Joint, if not the whole Limb, be well embrocated cum Ol. Rosar. & Lumbr. vel cum Ungt. Sambuc. And that if the Skin has been, by the preceding rough Usage, any where excoriated, the same be dress'd up with Lenients, and after Dige-

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stion cicatrised with my Cerat. de Lapide Calam. foread on Cloth like a Plaister, or other agreeable Epulotic, the I think nothing comes up to that. which may be apply'd from first to last: And altho'. you omit this circular Turn of your Roller to bind down the Arm to his Side, at this fecond Dreffing, yet he must have strict Charge given him for fome Days, that he raise not the same up till the Bone is again well fettled, and that the Fibres have in fome measure regain'd their enfeebled Tone, or the Muscles compos'd thereof, their Strength:

Nor furely is the Patient at all Times to be dubious, that his Surgeon has not well perform'd his Work, or fet his Limb in Order, because he cannot for fome Weeks, or perhaps Months after, use the same as before: Since where Instruments have been used; and great Extension of the Muscles thereby occasion'd, it is not admirable, more particularly in difeafed Habits, that long Time should be requir'd for the Recovery of the same. fo violently diffended, or put upon the Tenter as it

were, if not some of them torn asunder.

The Examples of a diflocated Humerus are for very common, that I think it needless to infert them: Yet meeting once with one of them. that gave me, as well as my Affiftants, more than ordinary Trouble, I will here recite it.

Hist. 105. An elderly Gentleman, keeping at that Time a Thread-Shop, by the Pump, opposite to the End of Threedneedle-Street, in Bishopsgate-Street, of a dry Habit, or a tough Muscular Body, sitting in his Chair afleep, after a large Evening's Draught, fell out of the same, and pitch'd with the Top of his Arm against the Stone-Pavement in his Kitchen, by which, without other Violence than the Weight of his Body, at this Time more than commonly helpless,

Sect. IX. Diflocation of the Humerus.

helpless, he threw the Humerus from its Socket into the Axilla: Which, notwithstanding it thus easily slew out, was not but with great Force and

Difficulty replaced.

Being called fingly, with the best Instruction I could give his Servants, how to behave in the Extension, and finding that the simple one by the Hand would not reach it, I try'd the Strap over my Shoulder, standing above him as he was placed and supported on a low Chair, in which Posture. stooping somewhat with my Hands upon the Scapula, to keep the same from rising, I had command enough for the Elevation, had the Extension been but fufficient to have drawn out the Bone from the Axilla, to the Brims of the Scapula: But missing my Aim therein, I desisted, and call'd in Mr. Bentham my Neighbour, then living in Devon-(bire-Street, when jointly we try'd the Napkin with a Ball in the midst thereof, placed in the Hollow of the Arm, he lifting at the same, prefering it to the Girth or Strap, whilft I affifted at the Extension of the Arm with two others: A strong Man with his Arm round the Trunk, and his Hands as high as conveniently they could be plac'd to make the counter Extension, with another standing over to keep down the Shoulder-Blade: But neither thus, with the utmost of our Efforts, could we perceive the Head of the Humerus to move out: Wherefore being unwilling to loofe this Opportunity, which we could not have again perhaps for feveral Days, or till the Fluxion brought on by our fruitless Extension was taken off: And by which Time the Success might be still more dubious, we fent to Mr. William Babington, who brought along with him his Never-failing Ambi, which he took principally to direct himself, whilst we were at the Arm, both above and below the Cubit, making the Extension.

vet still in Opposion to our utmost Endeavours, the Muscles were so tough and rigid, that they would not give way: Wherefore I now proposed the laying him along on his Back, upon a Blanket extended on the Floor, whilft Mr. Babington lay revers'd on the same Side, taking fast hold above the Wrist with both his Hands, thrusting his Heel at the fame Time high up into the Hollow of the Arm, my felf with a ftrong Napkin roll'd up, and the Ball; as a above deseribed, logd'd therein, (on which his faid Heel was fix'd) pull'd up the two Ends thereof, refting my Foot upon his Shoulder, and therewith keeping down the Scapula, made a counter Extension; Mr. Bentham affisting at the Stretch below, by a Napkin turn'd over and twifted above the Cubit, having another Person employ'd in keeping down his Body, preventing its rifing up or turning fide-ways.

And thus giving the Word, the Extension was begun, as well above as below, when as we were exerting the utmost of our Power, and my self now beginning to despair of his Case, Mr. Babington perceiving the Bone moving after our second Essay, with his Heel suddenly and strongly turn'd outwards, threw up the same, and we could all plainly hear it cluck into its Place: Then lifting him from the Ground, we laid on our Defensative, and rolled him securely up, being forc'd to inspect his Arm daily, by reason of the Skin slea'd off all round about, (notwithstanding all the Precaution taken) by the several Methods of Extension pra-

difed for the Reduction.

And thus was this very tough Piece of Work, even at the Instant we were about to relinquish it unfinish'd, at length accomplish'd, and the old Gentleman, who being full of Wine, was less sensible of the Pain, altho' he roar'd out and beg'd

us to forbear, recover'd (tho' it was long Time first) as compleat Use of his Arm as before the Accident.

To mitigate the Symptoms, he was presently let Blood, and for some Time, by the Direction of his Physician Dr. Tyson, kept to the Use of Pe-Etoral, Balfamic and Vulnerary Decoctions, Electuaries, Linctus's and Oily Draughts, for the Relief of his Breaft, which he complained was very fore a long while after: And indeed the Muscular Fibres, by being thus hall'd, were fo enfeebled in their Tone, that they could not recover themfelves, but by Degrees and gentle Motion, which occasion'd both the Patient and his Friends to be a great while jealous, that his Recovery being fo very flow, we had put him to all this Torture, as they call'd it, to no Purpose, his Bone being still, as they furmised, out of Joint: But by the gradual Increase of his Strength, and gaining better Use thereof, he was at length convinced of his Errour in thus censuring of us; and as before he had handsomly gratify'd my two Assistants, so he now as generously and thankfully paid me for my Attendance.

A Case somewhat of Kin to the foregoing, about Hist. 106. the same Time, and in as tough a Subject, I was call'd to, befalling a Brewer's Servant; when after some ineffectual Attempts, by other Ways, I call'd in Mr. William Petty, and two or three other Assistants: And as the Patient was supported upon his Feet, we placed the Crutch-Head in the Hollow of the Arm-pit, and then fixing our Pulley and Jack upon the Floor commodiously for the Work, we brought down the Arm thereto, which being thus bound down to the same, we were able to make what Extension we pleased; the Head of the Crutch supplying the Counter-Vol. II

Stretch, and after the Tackle had been work'd up fome Time, perceiving the Humerus dislodg'd, and coming out to the Edge of the Scapula, the said Crutch-Head was on each Side strongly raised upwards, and the dislocated Shoulder-Bone slew

sensibly into its Place.

But in all these rough Ways of Reduction, the Muscles are a long Time in regaining their former Power of Motion: And great Caution, by a gradual Procedure, is here also requir'd, lest first of all, by the sudden depressing of the Arm, and forcibly listing up the Crutch Head, before the Bone comes forward, you snap off the same, at least its Tip or Cartilage, together with that surrounding the Brims of the Scapula, receiving the said Apophysis of the Shoulder-Bone. Secondly, by an Overstretch of the Fibres, especially in antient People, and morbid Habits, you excite Convulsion of the Nerves, and perhaps Gangrene, as I have known fall out, with Mortification, from the Pain and Fluxion.

HIST. 107.

Soon after the latter Improvement of the Skrew. I was called in by Mr. Joseph Tanner, to a Baker in the same Neighbourhood with the old Threadman in Bishopsgate-street, who by a Fall had thrown out the Humerus. I was defir'd to bring the faid Instrument along with me, and accordingly, having enter'd the Head of the same close in the Axilla, and, with the common Gartering Ligature, made fast the Arm thereto, I took the Turniket, and kept the Skrew in Play, till Mr. Tamer at the Head of the same, finding his Opportunity, order'd the Arm to be brought down, and at the same Instant raised up the Bone to its Place: After which loofening the Ligature, we drefs'd up as usually in the like Cases, and the Patient soon after recover'd as good Use of the Limb as before.

I shall

I shall give you one Instance more of a Case of this Nature, and, as I remember, the fecond only I have been concern'd in, failing of Success at last, which I think too might fairly be imputed to the Petulancy and Obstinacy of the Patient herself. refusing us a second Trial, with more Ashstants and different Instruments, for her Help and Recovery. The Cafe as follows:

A Gentlewoman middle aged, of a somewhat Har. 1081 full Habit, with plump, foft, and therefore one might have thought more pliable, Muscular Fibres. being thrown out of a Chaife, and pitching with her Arm against some folid Body in the Way, beat out the Shoulder, which Accident being not difcover'd by the Surgeon, but mistaken for a Fra-Eture, had accordingly been drefs'd up: But she still complaining, I was confulted, when finding the Arm in good Figure, and being fearful of difordering the tender Callus, or giving Occasion to report that I had thereby diffurb'd the Fracture, I declin'd lifting up, or otherways meddling with the Limb, and stood by whilst the Bandage and Splints were again put on. But about a Fortnight after, I was defir'd to give them a fecond Visit, and finding her still complaining of great Pain and Uneasiness, when the Dressings were taken off, I adventur'd, tho' very carefully, to raise up the Limb, and feeling all round, could not discover any Signs of Callus, or Appearance of a Fracture; fo that taking the Arm more boldly into my Hand, to try the Motion, and looking on the Top of the Shoulder, though the was very fat, yet the Muscles not lying so round and full as they ought, I began to suspect that instead of the supposed Fracture, we had a Diflocation: Accordingly preffing hard with my Fingers through the Delioides, I could plainly perceive the empty Cavity of the Scapula,

Scapula, and as plainly feel the Head of the Humerus lodg'd in the Axilla. Upon which, taking the Surgeon aside, I gave my Judgment of the same, and advised forthwith that some Artist

should be called in to his Affistance.

The next Day, when we had made as favourable a Representation of the Case, as it would allow, in regard of the Surgeon's Overfight about a Fracture; we met Mr. James Fern, Senior Surgeon of St. Thomas's Hospital, a Gentleman of strict Probity, good Learning, and found Judgment; to whom lending what Affiftance I could, we jointly made Extension upon the Ambi; but however promissing a Subject we had to practise on, yet by the Length of Time the Bone was so fast lock'd in, and the Fibres contracted, that the Instrument with the too slender Extension we were now capable of making, much less the simple one by the Hand, first of all enterprised, would not reach it: So that defifting for that Time, we order'd an Emollient Liniment, to lubrify the Parts, in order to a farther Attempt, when the Fluxion was taken off, and fome flight Excoriations healed: But it happened in the Interim, that by the Advice of some Friends, the famous Southwark Bone-setter was recommended to her, who taking up her Arm, gave it a fudden Jerk, and perswaded her he had set all to Rights: So that coming to fee her two or three Days after, in order to perswade her to give Way to some farther Trial, she received me so very coldly that I suspected what had fallen out. She then told me that what three of us together could not do, tho' pulling almost her Arm off, was now done by one Man with little Trouble, meerly by a Slight of Hand, and she was very well again.

I had been too much acquainted with the vile Impositions of this Kind, practis'd by designing

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Men and cozening Knaves upon the Ignorant, to give much Credit to the Relation: And indeed my Fingers itch'd, as we fay, to be impress'd upon the Top or Neck of the Scapula, when letting her go on with some other great Atchievements she had been told of like Kind, perform'd by this Person, where the Surgeons had been foil'd, I defir'd only the Liberty of laying one Finger upon her naked Shoulder; which, by the Perswasion of a Gentlewoman then present, was granted, and I presently discover'd the Bone still wanting in its Socket, lying as before in the Hollow of the Arm-

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I then told her how she had been imposed on. and perswaded her all I could, if she intended not to remain always lame, that she would consult two or three able Surgeons, and fee what farther might be done; affuring her, as I had no other Reason, of the great Probability there was yet of Success: But instead of hearkening to my Advice. the fuffer'd her felf to be yet again feduced by the Name of Bone-Setter, believing it was properly the Business of that Set of Impostors, and not the Surgeons, and put her felf now under the Hands of one Pr-, at the other End of the Town, who whether more honeftly or judiciously I know not. but as ineffectually, after various Ways of Pulling and Hawling, left the Bone where he found it: Since which Time despairing of Help, she now rests content as it is, of resundented party

Diflocation of the Cubit.

Beneath the Shoulder, about the middle Way Diflocatibetween the Ends of the Fingers and the upper-elbow. most Part thereof, is placed the Cubitus or Elbow, which is likewise subject to be luxated both for-

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ng en wards and backwards, as well as upwards and

downwards.

This Joint is made up of the lower Apophysis of the Os Humeri aforesaid, and the upper of the Ulna, by a Species of the Ginglimus in Diarthrosis, as the Vertebra in the Synarthrosis: The Ulna having two Processes, an anteriour and posteriour, the first being received into the forward Sinus of the Humerus upon the Flexion of the Joint, the latter entering the backward Cavity of the same upon Extension, which by Anatomists is called Olecranon, by the common People the Point or Tip of the Elbow; a Part remarkable for the acute Pain ensuing a smart Blow thereon, owing chiefly to the tendinous Insertions of the Extensores Ulna about the same.

It is in this backward Cavity that the Cubit or Elbow is stop'd from passing farther than the Linea resta or strait Line: At the same End it has likewise a double Sinus, the one at its Outside, receiving into its Head the Top of the Radius, its Companion, the other between the Processes before mention'd, receiving a Protuberance of the Humerus; this last is called Trochlea, the Process now

observ'd moving therein as on a Pully.

The Radius, which is placed on the Outside of the Ulna, comes in also for a Share, tho but a small one, in this Articulation, its upper Part not only joining and supporting the Ulna side-ways, but having farthermore its Tip indented or excavated, for the outer Protuberance of the Humerus to play upon, when either bent or stretched out: The inferiour or lower Appendices of these Bones, we shall observe presently, when we come to speak of the Dissocation of the Carpus.

The Joint of the Cubit is farther strengthen'd by Syneurosis, or a Ligamentous Tye, being also bound

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bound down by the Muscles, and their Aponeuroses or Tendinous Expansions, that one would think it very difficult to displace it, and indeed it is rare to find other than a Subluxation, or a Semi-Dissocation.

If it fall out forwards, you will find the Prominence or Knobby Rising in the Bend, as we call it commonly, of the Arm, or a Vacuity or empty Space behind above the Olecranon; the Hand falls strait down, reclining backwards, the Flexion being hinder'd so that the Patient is unable to bring the same towards his Shoulder-Bone, or to make therewith the common Angle with the Point of his Elbow.

The Manner of reducing this Luxation is, whilst your two Assistants, the one griping about the Middle of the Humerus, the other between the Wrist and the said Joint of the Cubitus, gradually draw out the same, you are to place your two Thumbs on the prominent Part before, with your Fingers opposite behind about the back Part of the Juncture, when observing the Extension sufficient for your Purpose, you are, with your said Thumbs, to press back the Bone into its Place, giving Direction to the lower Extender to bring up the Wrist towards the Shoulder.

I have at some Times reduced this Luxation in young Children, by taking hold of the Wrist with my Right-Hand, a second Person drawing gently above the Elbow, and by the Thumb of my Left, forced back the Bone to its Place, whilst inslecting the Cubit I have heard the Cluck, and thus easily set all to rights.

But in rustic and tough Habits, where this simple Extention does not avail, we are directed to the Girth or Strap, like that for the Shoulder, but much longer; and having placed a thick Bolster of

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Cloth upon the rifing Head, putting the Arm through, let the one End be directed to the fame, whilst your own Foot is placed upon the other: Then making Room as before by your Extension, you are to press hard upon the said Girth, and bringing up the Arm at the Wrist, you shall hear the Bone snap into its Place behind: But in your bearing upon the Girth as aforesaid, it behoves you carefully to observe, that the Force be made direct against the Interstice of the Joint, and in your Extension, keep the Arm rather towards a Curve than a Strait.

When the Luxation is backward, the unufual Cavity is felt on the fore Part, and the Bearing out behind: The Arm is shorten'd and brought so inwards, that the Patient can by no means stretch

forth the same.

In remedying which, having made your Extenfion by your Affiftants, and thereby drawn out the Limb with your own Hand, you are to force the over-bearing Apophysis back into its Socket.

For this End the Arm is fometimes put round a Pillar, the Bend of the Cubit being brought close thereto, whilst with a Strap fasten'd on the Protuberance behind, the same is strongly pull'd forwards, and the Bone thereby resettled.

But here you must observe, you put not the Arm upon a slex Posture, which would be a Means of farther widening your Separation, and obstruct

your Work.

Again, if the Bone slips upwards, you will find the Rising or Inequality upon the same Part, whilst feeling beneath, you will miss the Bone, I mean its inferior Part, as when beat downwards the said Vacancy is perceptible at the Top, and the Protuberance underneath: At which Time, having made a suitable Extension, you force the Processus

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cessus back the Way it slipped, pressing on its Prominence, till you have either raised it when beat down, or depress d it when starting upwards, and settled it in its former Place: After which, your Defensative with Compress and Bolsters dip'd in Oxycrate, &c. together with the Bandage, as for a Fracture on the Joint, are what only remain in order to the Cure.

I have sometimes known a Fracture of the Processes of those Bones, at least a Separation of the Cartilaginous Tips, mistaken for a Discation: And I believe more frequently falls out than observed at the Time of the Accident; being truly a bad Case, and discoverable by the crashing Noise under the Fingers upon the handling of the Joint, occasioning usually a Stifness ever after of the same.

When this Consequence is fear'd, the best Way is to secure a Figure betwixt a Rect-Angle and a Right-Line, or to bring the Arm towards a Flexure: And after fastening of the Callus, you must use your utmost by lubricating Remedies externally, to regain what you can of the Motion; of which before in another Place.

Diflocation of the Carpus.

The Luxation of the Carpus or Wrist succeeds of the next, which Articulation is formed by the lower Carpus Process of the Ulna terminating therein, with a small round Head impress'd for the Reception of one of its Bones, on the Side whereof, there is a kind of Appendage, named Styloides, which, by the Help of a Syneurosis or Ligamentous Fastening, is ty'd to the same, and the lower Extreme also of the Radius, which having receiv'd the Ulna in a Sinus for that End, descends still farther, and at its Extremity has two other Dents or Impressions for the Reception

of some other Bones of the Carpus, which are eight in all, placed in two Ranks, called otherwise Phalanges; one of which however seems to lye a little out of Order, the uppermost being joined by an Arthrodia in the Diarthrosis to the Ulna and Radius, as aforesaid, the lower by an Harmonia to those above, and to the four Metacarpal Bones below, by Smarthrosis.

They are also farther connected among themfelves, by proper Ligaments, as well as by the common, called Annular: Yet notwithstanding by great Violence or Force, especially falling with the Wrist as it were doubled, and sometimes on the Flat of the Hand, they are beat out of Place.

When the Wrist is dislocated inwardly, the Hand falls outwards; if outwardly, it inclines forwards: When Side-ways, which I think is rare, it is discoverable, as those of the other Joints, by the Over-bearing or Rising on the one Side, and the Vacancy of the other: Comparing always at these Times, for your farther Direction, the same with the sound Parts, exposed for that Purpose just by.

If the Luxation be forwards, having made Extension at the Metacarp and Fingers below, with the counter Extension a little above the Joint, sufficient to let the Bones into their Places, let the Surgeon with the Flat of his Hand press the came down thereinto, whilst with the other behind, he stays the rest from giving way, or hin-

dering the Reposition.

On the contrary, the Luxation being backward, the Force is to be made behind and the Stay before.

Some, at these Times in the former, place the Arm and Hand supine on a slat Table, and after Extension, with the Palm of their own press down

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the difforted Joint; as in the latter, laying the Hand prone, and truly, where these little Bones are started, this Method ought to take Place, with the Flat of the Hand bearing hard against them, till they are sunk even with their Fellows, or brought into their first Order, with which, as I have formerly taken Notice, it behoves you to be well acquainted, having also the sound Hand lying before you, not only as a Direction in the Work, but ascertaining you also, as well as the By-standers, when the same is rightly performed.

Dislocation of the Metacarp and Fingers.

Below the Carpus stands the Metacarp, in as Of the great Order, consisting of four Bones on a Level Metacarp with each other, or in a strait Line with the Fingers, having in their upper Part, each an Impression to receive the lower Phalanx of the Metacarpal Bones, by a Synarthrosis, as at the other, a Prominence entering the small Pit in the sirft Bones of the Fingers, to which they are articulated by an Arthrodia in the Diarthrosis, as also by a Syneurosis

or Ligamentous Binding.

The two Middle-most of these Bones cannot well start out side-ways, being supported by their Fellows so close on each Side; and when stying out whether upwards or downwards, there is nothing differing in the Method of Reduction from those above: So that we shall proceed to the Fingers, which are a Sort of Ginglyonoid Articulation in Diarthrosis, receiving, as we said but now, the Metacarpal Bones, and being received again of those below them, where the Heads and Sinus's however small, are double, unless in those which are next the Nails.

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distrocasi-

The Thumb differs somewhat in its Articulation, as not being joined above to any of the Metacarpal Bones, but immediately to the Carpus, and its lower having only a single Head entering

the like Sinus of the Bone next to it.

These are also liable to Luxations, which are discovered not only by their Inability of Motion, but the Extremities thereof over-bearing in some Places, and sinking on the opposite: Thus starting upwards, if you examine the Intermode, you may both feel and see the Bunching out below the Back of the Hand, and the Hollow on the Inside opposite; if downwards, the Protuberance is discoverable on the Inside below the Palm, and the Cavity forsaken above: The like if side-ways,

the one Part bearing, the other being funk.

These Distocations are all reduced by the simple Extension, taking hold of the Fingers End below, and the Metacarpal Bone above, after which the common Defensative, Bits of Plaister-Compress, Roller and small Splints, as we observed at the End of our last Section for the same Bones fractured, are all that may be farther wanting to the Cure: And to avoid the great Interruption of your Time, being too prolix as to what relates likewise to the Dressings for those of the Carpal and Metacarpal Dissocations, by looking back to the same Bones crushed and broken, you may collect the like, if not the very same Apparatus, will serve your present Purpose.

Diflocation of the Os Femoris.

Diflocations of the Bones both of the Trunk and Arms, and are Os Femo-come next to describe those of the Lower Parts, viz. the Thigh and Leg: The former of which Bones

Bones, lying so deeply buried among the Muscles, creates generally the greatest Dissiculty to replace. I mean in its Articulation with the Coxendix or Hip-Bone, which hath a large Cup or Cavity sitted for the Reception of the Femur, whose Epiphisis or round Head jetting out beyond its Neck at its upper Extremity, enters therein as into a Pixis or Box; which Cup is called by the Surgeons Acetabulum Coxendicis, the Joint affording us the most remarkable Articulation under the Diarthross, being the first Species thereof, reckon'd up by the Anatomists, named Enarthross: The Cavity receiving being the largest and deepest, and the Head

of the Bone entering, the bigeft.

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The Edges of this Cavity are also surrounded by a ftrong and thick Cartilage, which makes the Simus yet more profound; and for the farther Security of this Articulation, besides the Ligament encompassing its Brims, there is another round, short and strong One, springing up from the middle Part of the Bottom of the Pixis, and fast inferted into that of the faid Appendix or Head of the Femur entering thereinto, and conflituting farther a Syneurofis, or with some a Neuro-chondrofis: So that without a Rupture, or tearing afunder of this Ligament, called Teres, from its curious, round and smooth Contexture, it seems almost impossible a compleat or perfect Luxation should happen to this Joint: And indeed, considering the Proneness thereof to flip out again, after Reduction, from the Acetabulum, we may rather incline to this Opinion: Altho' to deliver my own freely, to the Discredit of the Art, I believe the one Half are never replac'd, the Bone, after some Time resting among the Heads of the Muscles, there supports itself, the lamely, the unfortunate Patient limping his whole Life-Time after. The

The Os Femoris is thrown out of its Socker both to the Out and Infide, as also forwards and backwards.

When flying inwards, which I have met with the most frequently, the Head is to be felt under the Inguen, the Leg appearing longer, with the Foot turn'd outward; the Patient being unable to bend his Knee, or join his Thighs together: Whereas if the Luxation be outward, the Leg will be shorten'd, the Foot inverted, with the Heel turn'd out, which set to the Ground, he bears rather upon the Toes.

When it flips forwards, the Head thereof lies on the Pubes, and if you press hard on the Muscles of the Buttock, down towards the Articulation, there will be felt an unusual Hollow, whence the same is sted; neither can he bend his Thigh, or bring the same towards his Belly, and, contraty to the other, if he tries to stand, he bears upon his Heel: A Suppression of Urine is said also at some Times to accompany this Luxation, from a Compression of the Sphinster Vesica.

If thrown out behind, the Buttock will lye up higher, and appear fuller than the other, the Leg shorter: Whereas in the last, the Inequality is not great, but the Groin downwards feels very hollow, and the whole Femur hangs as it were backwards:

But as to the Cure,

The Manner of Replacing this Diflocation, either inwards or outwards, is by laying the Patient Jupine, or with his Face upwards upon a Table, in which, for the better Extension or Stay of the Body, a Wooden-Pin about a Foot and half long, is fixed, which is to bear close up the Twist, or against the Groin on the lame Side: Then fastening a strong Towel or Napkin about the Knee, with another below, a third being before-hand

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put up to the Groin, round about the Hip, against which the Pin aforefaid is to reft, after which taking fast hold of the Ends of the faid Towels, the Extension, as also the counter Extension, is begun, by feveral ftrong Arms, whilft one likewife at each Arm-pit, may farther the fame, not only fleadying of the Body, but augmenting the counter Stretch where it is wanting: During which, fo foon as the Surgeon perceives the Bone moving out, let him take his Opportunity, giving Orders to the Extenders below, fuddenly to lift up the Patient's Thigh towards his Belly, pressing with his Hands, either to the Right or Left, as the Situation of the fame requires, and therewith force back its Head towards the Acetabulum, whereinto it will, flipping over the Tip of the Cartilage. Inap fometimes with a loud Noise.

But supposing the Processus or Prominency lock'd under the Glutei or Muscles of the Buttock, the former Posture is to be revers'd, and the Body laid prone, in like Manner, or on the Face, the Pin rising up, on the Side of the Twist, whilst after suitable Extension as before, the Surgeon lifting up the Femur or Thigh-Bone, or rather giving Orders to the Extenders so to do, with his Hands pressent down the Head into its Seat aforesaid.

The like where it is forced to the Outlide, the Extension, Elevation and Pressure, being made to the contrary, that the Bone may be more certainly and securely conducted to the Cavity it was slown from: In which nothing but a right and due Knowledge of the Skeleton, in its several Articulations, assisted also at the same Time by a diligent Comparison of the Limbs, the Sound with the Lame, can, as we have already more than once observed, render you compleat or dexterous in this Part of your Profession.

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Where the Extension by the Hand proves infufficient, the Tackle or Pullies are wanted, to supply the Desiciency thereof; notwithstanding which, tho some very eminent Practitioners have been concern'd therein, I have more often known the Dislocations of this Kind, still lest unfinish'd, than those of the Humerus or Shoulder-Bone.

HIST. 109.

An Oftler, at the Red-Lion, in Red-Cross-Street, a young sprightly Fellow, being thrown from his Horse, in the Fall displaced this Bone, finding himself unable to stand upon his Leg, he was carry'd up to his Chamber, and put into Bed, after which they sent for me, who upon Examination plainly selt the Head of the Bone in the Inguen, and the Cup or Cavity of the Coxendix forsaken

by the same.

In order to its Reduction, I call'd for the Affistance of three strong Fellows, at that Time in the House; and happening in his Neighbourhood, I fent also to Mr. Richard Bateman, then living just by, but he being from Home, his Servant came to me: I then ask'd for feveral strong Towels, one of which I drew up between his Legs close by the Groin, but clear of the Testis, each End of which was committed into the Hands of two of the Affiftants before mention'd, in order to a counter Extension: To two others, placed one above, the other below the Joint of the Knee two more; and, as a farther Help to the counter Stretch, others were called in, who under each Arm were to draw up the Trunk, and keep the Body from wrigling out of the Way.

Being thus let at their feveral Posts, and all Things provided I had occasion for, as the Patient lay rather on the sound Side, kneeling on the Bed over him, I clap'd my Arms high up under the Fleshy Part of his Thigh, ready for the Work,

and

giving Orders for the Extension to be begun, both above and below, and as I found the Bone to move, with my Arms as aforesaid, I lifted it again to its Acetabulum, where it slapp'd in ve-

ry loudly, and perceptibly to us all.

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After this, I apply'd a large Defensative Plaister round the Hip, with Bolftering in the Hollow of the Twift, and roll'd him fecurely up: The reft being Nature's Work, only directing him to lie ftill and quiet, and confining him to his Bed for a Month's Time, which was not but with great Difficulty comply'd with; for finding himself so perfectly easy, eating, drinking and sleeping as well as before, having Youth and an excellent well constituted Temperament, he had no Notion of the Neceffity of fuch Confinement, and unknown to me, had got up at the Fortnight's End, of an Evening, drinking and playing at Cards with his Companions. At about five Weeks End, coming into the Yard, I faw him in the Riding-Place, laying his Hand upon a Horse's-Back, leap upon the same, which he told me (and reasonably) was much easier to him, than mounting by the Stirrup, in which the Heel making an Angle with the Hip, the Head of the Femur is brought out nearer to the Brims of the Cartilage, and in greater Danger of flipping over the same, by stretching of the Teres: Nor did he, as I could hear, ever make Complaint of any Weakness of the Joint after.

This Case, with two others, in one of which the Head of the Femur was beat backwards, I do not blush to own, have been the only successful Enterprizes of this Nature, in which I have been my self, as Principal, concern'd, which were all too perform'd singly by the Strength of the Arm,

or without any other Instrument.

Vol. II.

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I have indeed affifted others, who have fome of them likewise succeeded, but for the most part miscarry'd in the Work; the Bone falling out again, through Relaxation if not a Rupture of the Ligament before described, and the Patient's Cafe after not to be retreiv'd. I remember also where there were four Surgeons of us together, with other Affistants at the Tackle, when so soon as the Fibres began to be extended, the Muscles of the whole Limb were so univerfally convuls'd, that our Endeavours at the Jack, being render'd fruitless by the Spalmodick Contraction of the same, we were forced to defift, and leave the Bone nefting close to the Pubes, where we found it; proceeding now.

Diffocatigestion of Hamours.

As we inftanc'd in the Diflocations of the Humeons by Con-rus, at fometimes arising from a gradual Congestion of Humours round about the Joint, and loofening the Ligaments thereof; fo here also the like Misfortune happens, and that I think more frequently than above, particularly in frumous Habits. and more especially when some cold or phlegmatick Humour feated about the Hip, and stiffening its Motion, is taken for a Luxation, countenanc'd the rather by fome Relaxation of the Ligament, by which that Leg appears perhaps a little longer than the other, which, together with the Preternatural Fulness round the Joint, confirms that Suspicion: And now some Roguish pretending Bone-fetter going to Work, and hawling the Limb, under Pretence of Setting the Bone, a new Fluxion of Humour is ftirr'd up, and an Abfcess or Apostemation at length enfues, by which the Ligaments long feeping in Matter, are farther relaxed, and the Head of the Bone really falls out of the Cup: At length the Abscess breaking, or being open'd, by the continual and large Discharge, an Atrophy comes on, and the Patient miserably pines away under a Marasmus.

Marasmus, as we have taken Notice elsewhere, in discoursing of the white Swellings upon the Joints, in our second Section, among the strumous Sym-

ptoms.

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If such Accident is sear'd, and takes its Rise from a meer Debility of the Joint, as in weakly and ricketty Children, whose Ligaments and Muscles are over lax, and where there is no Humour congested round about, the cold Immersion, or Plunging the Patient frequently in cold Water, by giving a new Spring to the Fibres, invigorating the Tone of the Blood, and procuring a due Tensity to all the Parts in general, is, if I mistake not, the most serviceable Remedy upon these Occasions.

Diflocation of the Knee.

The next Joint we come to, is that of the Knee, of the framed of the lower Appendix of the Os Fe-Knee. moris, which hath two small Processes, with a Simus in the Middle to receive a Prominence in the Tibia below it, to which it is also fasten'd by a Ligament, and the upper Part of the said Tibia, which hath two superficial Simus's, made by so many Cartilages fix'd on its Appendix; and excavated for the Reception of the Processes before-mention'd: So that here also we have a Ginglymus, Syneurosis, and Arthrodia, under the Diarthrosis.

Besides those, for the farther strengthening of this Articulation, just before the Extremities of these Bones, I mean the lower of the Femur, and upper of the Tibia, is placed the Patella, or Knee-Pan, which on its Inside is received by the smooth Cartilaginous Surface of the Appendix of the Os Femoris, and thereto joined by Symenosis, being capped as it were, and fastened down by the Tendinous Expansion of the Muscles, we took Notice of in

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the Fractures of this Bone, whose Use seems principally to secure the Joint of the Knee from being luxated forward, in our descending steep Places, or going down Stairs: Yet notwithstanding it sometimes happens, that both the Patella, as well as the Joint of the Knee it self, are liable to be displaced, tho the latter seldom other than by a Semi-luxation, whether before, behind, or sideways.

If the Luxation be forwards, as the Patient lies along, let your Extension be made by the Hand, or a Napkin fasten'd above, with another below the Joint, whilst seeing your Opportunity, with both your Hands you sink down the prominent Part, and resettle the same in the Sinus it slip'd out of: And if this Extention by the Hand suffice not, the Pully is to be made use of; tho' I have never met with the Occasion at these Times.

When it is beat out backwards, you will find a Protuberance behind in the Ham, with a Falling in before on the Knee: In order to the Rectifying which, the Patient being set upon a Chair or Stool, well supported on each Side, the Extension made as before; whilst the lower Extender goes about to bend the Leg, with your Hands behind upon the Prominence, you are to force back the Condyls or started Processus into the Sinus's they had so lately abandon'd: Or placing both your Hands under the Ham, as you stand over him, forcibly lift up the same.

Another Way of reducing this Luxation is, whilst the Patient is supported on his sound Leg, with his Back towards yours, having taken the lame One between your own, you press one of your Hands on the prominent Part in the Ham, whilst with the other you raise the Leg up towards his Buttock: But I think you may as well have your Face towards his Back, and whilst an Assistant raiseth

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raiseth the Leg, in the Manner aforesaid, with both his Hands, you may have also yours at Liberty, as you find Occasion, to depress or drive back the Bone.

For the same Purpose, a Girth or Strap is also placed upon a Bolster in the Ham, when taking up the Leg in your Hand, whilst, with your Foot forwards upon the Girth, you draw up the same, you

may more easily perform the Work.

In the Lateral Diflocations of the same Joint, if the Bones are forced inwards, the Prominence or unequal Rising will appear on the same Side, and the unusual Vacancy on the Outward; and so contrarily, if beat outwards, the Rising will be found there also, and the Vacuity inwards: When accordingly making suitable Extension, unless the Joint be very full and large indeed, and the Muscles through Pain under the Power of Contraction, you will sometimes find it no very difficult Matter, the Processes being small and the Pits superficial, with your Hands compressing on each Side, to direct the started Bone to its former proper Situation.

In these Luxations it is best, I think, to have the Patient out of Bed, at least sitting at the Feet thereof, well secur'd by one on each Side, in such Manner that he may be stay'd, during the Extension and Flexion of the Leg; and in the Lateral Dislocation, you may put his Leg betwixt your own, as you stand facing him, an Assistant behind you, taking fast hold of the same, makes the lower Extension; at which Time, whilst another pulls at the Thigh, with your Hands on each Side of the Joint, and the Inside of your own Knees close also to your Hands, by a Force thus united, you may more readily dispatch what you are going about;

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Diflocation of the Knee-Pan.

When the Patella is displac'd, you are also with Knee-Pan. your Hands to force the fame back, whence it is fled, to its former Station, either gently or fuddenly stretching out the Leg, as you perceive most likely to answer the Intension, when arriving near its Center, you will find a Flection of the same, or lifting up the Knee, with your Hand under the Ham, will not only facilitate the Reduction, but prevent the flipping over of the Bone to the contrary Side, whilst its lying easily along is the best Pofture to move it first out of the Place it is flown into, which is most commonly towards the upper Part: And here once again, as a farther Direction for the Resettling, you must have the well Leg uncover'd before you, that by carefully scrutinizing each, and duly comparing them in the fame Postures, you may be the better assured your Bufiness is well done.

> I think I need not mention any Thing of the Dreffings, which have fo little differing from the Fractures of the same Parts, observed in our fore-

going Section.

Diflocation of the Ankle, &c.

The Ankle-Joint, or Tarfus, is a Conjunction of of the Ankle, Tarfus, the lower Appendage of the Tibia, whose Process on Metatars the Infide is named the Maleolus Internus, as that of the Fibula, its Companion on the Outfide, Maleolus Externus, and the upper Part of the Talus, or Astragalus lying under it.

> For the Tibia, at its Extreme below the Place, where it receives the Fibula, has a Cavity as it were divided by a little Rising in the Middle, receiving

the prominent Part of the Talus, as aforefaid, by a Gynglimus in Diarthrofis, or that Articulation which is for manifest Motion: For it is on this Bone that the Foot is moved upwards and downwards, or bent and extended, and from whence, by outward Force, it slips off, as well as backwards, forwards, and side-ways.

If the Luxation happens inwards, the Sole of the Foot is turned outwards, as it is inwardly, where

the Luxation is outwards.

If thrown backwards against the great Chord, or Tendon of the Gastroecnemii, the Foot appears much larger, and the Heel is lost: As the former is shorten'd, and the latter lengthen'd, when started or thrust forwards, upon the Bones of the

Tarfus.

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The Manner of Reposition of this Dislocation is, after due Extension at the Small of the Leg, and round about the Instep, the found Ankle lying also to compare with, to press back the prominent Part by the Way it slipped out, and after by good Compress and Bandage to prevent its slying thence again; for there are some People so very feeble in these Joints particularly, that the Treading upon a rugged or uneven Stone in the Streets, shall immediately throw them half out, occasioning a Sub-luxation, and at the same Time the Bone inaps in again of it self, and they make a Shift, tho' very lamely, to hobble Home again.

I have been frequently fent for upon these Accidents, and discovering a vast pussy Tumour, or Echymosis upon the Part, have been sometimes jealous there has been a Dissocation, till coming to examine the several Motions, I found all safe, only embrocating the Part cum Ol. Rosar. ac tantillo Acet. pel cum Ung. Sambuc. and laying on a Desensative ex Diapalm. Bolo, &c. with moderate Bandage above

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and below the Joint: If there has been great Pain, Bleeding also in the Arm, ordering moreover a spare Diet, with Confinement to the Bed or Couch for some Time, till the Tumour being dispersed, and the Fluxion gone off, I recommend a Cerate in the Room of the Defensative, to strengthen the Ligaments: And for fome, who have been after fubject to the like Accidents, upon every light Occasion, a laced Sock or Stocking, which has been found ferviceable.

But if the Luxation be compleat, the Accidents enfuing are often of bad Confequence, not only from the Proneness of the Bones (whose Processus and Sinus's are so shallow, and the Weight they stand under so great) to fly out again, but by reason of their Ligaments and Tendons thereby distorted, great Pain and Fluxion is apt to arife, fo that they want not only the same Rest, but as ftrict Regimen as those of the larger Articulations; and after your best Endeavours, it will sometimes happen, that inevitable Lameness, or a limping Gate will enfue for long time, if not always after.

Hist, 109. A Brafier, in my Neighbourhood, of a strong Habit of Body, and corpulent, in Leaping a Ditch that was very fleep, pitch'd with one of his inner Ankles fo doubling under him, and withal bruifed against a rugged Stone in the Ground, that by the excessive Pain being unable to rife up again, he was therefore carry'd by his Friends to a House in the Town adjacent, in which he lay all Night, the Accident befalling him feveral Miles from Home, where he was brought next Day, and a Surgeon fent for, who discovering the Maleolus Inno Purpose, the Reduction: The Tumour being very great, and the Skin on the Outside, either by the

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the Force of the Contusion, or improper Management in the Country, tending to mortify, which, when a second Surgeon was call'd in, they somented, having sirst scarify'd, and dress'd up with Theriaca in the Form of a Cataplasm: Yet notwithstanding all their Endeavours, the same spread to the Compass of a Palm, and throwing off some few Days after, lest the whole Apophysis of the Tibia naked, protruding out of the Ulcer to a great Distance: A Case indeed so formidable, or of so threatening a Nature, that the Surgeons thought it sarther necessary to call in farther Help, and Mr. Blundell with my self were desired to visit him.

Upon strict Enquiry, and Inspection of the Joint, we found the lower Appendage of the Tibia, that locks in the Talus, broken off, and the Bone so thrown out of its Place, that there was no Likelihood of its Reduction, or ever after keeping it so reduc'd: The Ligaments being all torn, and lying round about in Sloughs, with the Bone also uncover'd, and standing out of the Brims of the

frightfully gaping Ulcer. After withdrawing into another Room to confult, when we had maturely weigh'd all Circumstances, we concluded the best Way was to difmember, before some Abscess, threatening from above, came on, and his Spirits were farther exhausted: And this we deliver'd to the Patient himfelf, in the mildest Way we could, as our joint Opinion, affuring him the Danger was as great by keeping of his Limb on, as by the Amputation, with a speedier Cure, if he surviv'd the Operation, as there was Reason to think he might, by the one Half; and confequently, all Things confider'd, infinitely less Trouble and Pain also, than he must expect in the laying open Apostemations, Use of Escharotics and Cauteries, to the Fungous Ulcer, as well as to the Bone, with the Fatigue hereof for long time, and the Hazard at last of his
sinking by the great Discharge, before an Ulcer of
that Kind could be brought to a firm Cicatrix: Or
admitting that accomplish d at the Year's End, the
Unlikelihood of such a Limb to support him so
well as the Artificial.

Having paused a little while, he seem'd to give way, and we left him a Day or two to consider thereof: When in our Absence, a certain Empirical Practitioner, for nothing so remarkable as a bold Assurance, was call'd in, who made a Pish at the Case, saying, in his Romantic Way, he had cur'd twenty worse Legs than this; and that there was no Oc-

cafion for cutting off the same.

Upon which the Surgeons who had been first confulted, perceiving, after feveral Months Attendance, that there was little or no Prospect of any End thereof, the Heel likewife mortifying, and the Os Calcis growing Carious, with Apostemations one enfuing another, which were laid open up to the Calf of the Leg; the poor Patient by a Marafmus, as we had foretold, reduced from great Bulk to a Skeleton, cover'd over with little more than the Skin: Thefe Gentlemen, I fay, withdrew, finding him still oppose the taking off the Leg, and made way for another, who promis'd greater Matters than the first ever pretended to: When thus struggling and languishing for a Year and half, I faw him got down Stairs upon two Crutches, and fince many Years now past, in a poor lame Condirion, as he must continue for his Life-Time.

Dislocation of the Tarfus, Metatars and Toes.

Before the Talus stand the Bones of the Tarsus, the first of which, call'd Naviculare, has a Sinus receiving

receiving the prominent Head of the said Bone, which on its two Sides is incompassed by the Processes before mention'd, of the Tibia and Fibula,

conflituting the Maleoli.

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Tis by this Conjunction of the Talus with the Naviculare, which is an Arthrodia in Diarthrofis, that the Foot has its lateral Motion: But before we proceed farther, its necessary we take Notice of another, called the Calx or Heel-Bone, the upper Part of which, lying under the Talus, is therewith articulated by a Ginglimus, both receiving and

being again received.

To the posteriour or backward Extremity of this Bone, is fasten'd the great Tendon we mention'd before, made up of the Termination of the Gastroecnemii, or Musculi Extensores Pedis, called by some the Tendo Achyllis, from the Story of the antient Poets, who seign Achylles to have been invulnerable in all other Parts of his Body: But his Mother holding him thereby, when she dip'd him in the River Styx, this Part escap'd the sovereign Preservative, and he lost his Life after, by a Wound inslicted thereon: Quitting the Fable.

The fore Part of this Bone is joined to one of those of the Tarsus, called Cymbiforme: But now returning to the Os Naviculare, which, we told you, on its back Part received into its Cavity the Head of the Talus: On its fore Part there are three little Prominences, entering as many shallow Pits or Impressions of the three Ossa Cuniesormia, making an Arthrodia in the Synarthrosis; which, with the Cymbiforme before observed, lye in a Range connected by a strong Syneurosis or Ligament.

These Bones being seven in Number, viz. Astragalus, Navicukare, Calcis, Cymbiforme, and the three Cuneiformia, make up that Part of the Foot we call the Instep, which are liable to be displaced

both

both upwards and downwards, those Handing in the Middle, and those on the Outside laterally also: But there being nothing remarkably differing, either in the Reduction or Dressings, from those of the Carpus above related, no more than there is also between the Metatars and Toes, and the Metacarp with the Fingers, at the same Time remark'd, as to require a farther Enlargement thereupon; we shall content our selves in having thus laid down their Ofteology or Anatomical Description. Caution and close this Section with the following Caution.

That if in attempting to reduce a Bone diflocated, having made great and painful Extension, you miss your Aim, and are disappointed; you are by no means to meddle again therewith next Day, or perhaps for two or three afterwards, but to wait till the Fluxion of Humour, owing to your former Extension, is taken off, Bleeding your Patient, and embrocating the Limb cum Ol. Rosar. vel Sambuc. after which, the Tumour Subsiding. and the Excoriations, if any, healed up with your Epulotic, the Ol. Lumbric cum Ung. Dialth. or the lubrifying Axungia's, in order to mollify and relax the Muscular Fibres, that they may more readily give way, when you enterprise the Work a second Time, being provided of more Help and better Inftruments, at least the same more dexterously manag'd.

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Of some Distempers over-look'd in the foregoing, and incident more particularly to the Female Sex; as Tumours and Apostemations from Milk, soon after Delivery: With others arising from the untimely Stoppage of Child-Bed Purgations, Falling-down of the Womb, &c. also of the Prolapsus Ani.

WHEN I had taken a Review of the preceding Sections, I found I had omitted certain Diseases peculiar to the Female Sex, as in particular among the Tumours, those arising from Milk suddenly, and in great Abundance, after Delivery from Child-Birth, slowing into the Breasts, there at some Times exciting Tumefaction, Inflammation and Abscess.

Besides which, there are others also happening at this Time by some ill Management, as getting Cold or the like, whence the Child-Bed Purgations, called Lochia, being untimely stop'd, and the Blood thence imbued with a malign Quality, either Stagnation of the same with Mortification of the Parts ensues, or at the best Apostemations and Sinuous Ulcers hard of Cure.

Again,

Again, they are moreover subject to a Prolapsus Uteri, from the Relaxation of the Ligaments sufpending the same, which frequently take their Rise from hard Labours, and other Weaknesses of Fluors both white and red, incident to the Sex.

Galen, I think, makes them an Hundred-fold more miferable than Man, on the Account of fuch, or greater Number of Maladies, arising some how

or other from the Womb.

But leaving these to the *Physician*, we shall here only touch upon the above-mention'd, which will compleat our *Decade*, and shall begin with those occasion'd by the *Milk*, so far as affecting the *Glandules* of the Breast, and there raising a *Tumour*

with Pain and Fluxion.

Tis generally supposed, that after Delivery, the Chilous or Milky Juice, which I take for the same Thing, being no longer wanted for the Use of the Fatus now excluded, is transmitted to the Glandules of the Breast, for nourishing thereof, as before it had been supplied by those of the Placenta adhering to the Uterus: But truly, how it subsists therein, whether on this or other Juices, or by what Passages the same are convey d thereto, is a Disquisition foreign to our present Subject, and has employ'd the Ingenuity of several great Men.

However this may be, it is incontestable that the Chylous Liquor we call Milk, before it is Sanguis'd or turn'd into Blood, being separated from the same (as usually conjectur'd) in the Circulation by the Glandules of the Breasts, and thence by the Tubuli Lastiferi convey'd to the Nipple, whence lastly it is sucked into the Mouth, is by Nature or dain'd for its Food, till it is capable of more solid

Nourishment.

Nor does it belong to us to folve that intricate Contrivance of hers, at this Juncture furnishing fuch

fuch Quantity of the Chylaus Juice to these Parts, differently from what happens at other Times, any more than whether or no there be any secret Passages not yet discovered, for the readier Conveyance of the same to the Breasts, than in the common Way of Circulation by the Thoracic and Mammary Arteries, where not being yet assimulated thereunto, it is, as but now observed, secerned by the Glandules, the rest returning by the Veins to the Heart.

These Phoenomena are not I say our Task to discuss, who are now only to prevent what we can the Mischiess arising from the too copious Afflux thereof, and to obviate its Stagnation in the said Glandules, with the Consequents thence

arifing.

'Tis certain almost every Woman, presently after her Delivery, finds great Increase of this Fluid we call Milk into her Breafts, by which the Kernels are first of all fill'd, and from thence the Tubes likewife diffended, a farther Supply of which flill coming on, great Tention must needs arise, with Pain and Induration; fo that unless the same finds a Way of exonerating or emptying itself by the Duets terminating at the Mammilla or Nipples. the whole Breaft being thus put upon the utmost Stretch, is incapable of receiving more, and if the Plenitude be not abated, either by the drawing thereof, which is still hazardous, or absorbed by the Veins, as other Extravalations, and convey'd back again into the Blood, an Abscess or Apostemation frequently enfues.

Of Abscesses from Milk.

of Abscesses from Milk.

This Disturbance happening generally on the third or fourth Day, raifeth what we call commonly the Milky Fever, causing great Disturbance in the Blood for some Hours, till a Critical Sweat breaking forth, the Turgescency goes off, and the Fever ceases: The Glandules likewise and the Milk-Pipes being now dilated, what follows afterwards placidly moves on, and, if no Mistake be committed, is for the most part kept under by the Infant's Suction, till the Time of Ablactation, or Weaning as our Women call it, when it usually flackens and disappears: Or the Mother again conceiving, provident Nature now flanding in more need of the Supply, for the Nourishment of another Fætus, withdraws the former to the Place where it is more wanted: Returning again from this Deviation to our Subject.

In order to prevent the Diffurbance hence arifing, fo foon as, or indeed fome Weeks before, the Woman is brought to Bed, she should determine whether or no she intends to suckle her Infant, and if the refolve not, the may wear Plaisters upon her Breasts moderately drying and restringing, fuch as the common Diachylon, or equal Parts of that and the De Minio: She is likewise before, but more especially after her Delivery, to avoid the Ingurgitating large Quantities of thin, ferous and attenuating Liquors, observing regular Discipline also in her Diet, which altho' sufficient for the Sustenance of her self and the Charge she carries. yet not to the Indulging any fuch Excesses as may accumulate superfluous Juices, apt to excite a Ferment in her Blood, and overload the Vessels.

Some

Some propose the Wearing likewise of a Wad of Tow, press'd out of warm Oxycrate, in the Arm-pits, with a View thereby of moderating the Course of the same into these Parts.

But after Delivery, what ever she did before, it behoves her to be wary, and to take Care she commits no Error, or be over busy with Applications too cold or repercussive, lest a Coagulum be thereby induced, and a Schirrus brought on, or at the best inevitable Abscess or Apostemation: Nor on the other hand must she suffer them inadvertently to be drawn, unless, thro' Plenitude of the Milky Liquor, the same voluntarily also slowing forth, she is put upon it for present Relief: For since her Design is not to give suck, she will hereby only make way for farther Instax thereof to these Parts,

where she wants to get rid of it.

Let the Surgeon therefore be timely consulted, if there feem Occasion for his Help, who may in the Beginning apply afresh one of the foresaid Plaisters, giving a strict Charge that she be, as afore-mention'd, sparing in her Liquours, above all taking Care of the cold Air, or too early rifing out of Bed, in which a free Perspiration by the Pores is to be promoted, that may keep under the Fulness of the Vessels, and carry off the Feverish Ferment rais'd thereby: Observing farther at the Peril of her Life, that she by no means check her Purgations, fo absolutely necessary to her Preservation: And if, notwithstanding your Repercutient or Discutient Applications, the Swelling still increases and indurates, growing also painful, you are to add some gentle Emollient, such as the De Minio run down with a little Ung. Dialth. or the Cera Flava cum Sperm. Ceti ac q. s. ejusdem Ung. also the Empl. de Mucilag. or the Diagalbanum of Bates.

I have fometimes, in the Beginning of these Diforders, fuccefsfully apply'd folded Linnen-Cloths. wrung warm out of an Aq. Calcis, being shifted Night and Morning: But if the Pain increase with Inflammation, an Anodyne Cataplasm must be apply'd ex Mica Panis in Lacte, or a Decoction ex Flor. Sambuc. Chamomel. & Fol. Rofar. in eodem Cotta & Farin. Fab. Inspif. embrocating the Breast first of all cum Ung. Sambuc. or mixing some of the same with the Cataplasm before you lay it on: When the Symptoms still encreasing with Pulfation or Throbing in the Part, especially if Matter seem perceptibly to fluctuate under the Fingers, and the Tumour grows prominent, you are to forward Suppuration, as we have in our First Section advised for the Phlegmon: This being indeed no other, and the Indications therein to be observed by the Surgeon. are here likewise the same which we have there laid down, that is to fuit the Applications to the pre-Tent Condition or State of the Tumour: For if you apply Emollients at the Beginning, by relaxing the Parts, you encourage and make way for the larger Fluxion: if Discutients, by rarifying or attenuating the Humour, you not only promote the fame, but, by breathing forth the more fubtil Parts. leave the rest to indurate in the Glands, and turn to a Schirrus: The like Mischief may accrue by the untimely, too late, or over long Continuance of repelling or Restringent Topics, which lock up the faid Humours, and fixing them in their Channels, endanger Stagnation of the Juices, and bring on Abscels or Apostemation.

But we have faid fo much of this, as to the framing your Remedies to the Nature of the Swelling, and State of the Inflammation attending, when discoursing of that Tumour, as to render any Enlargement thereupon, I suppose, needless: So

that referring you thither, if wanting farther Instructions, I shall only give you an Instance or two of this Kind, where I met with more than ordi-

nary Difficulty to a complish my Ends.

A young Gentlewoman, in few Days after her HIST. 110? Delivery, or at the Time of her Milky Fever, getting Cold, as the apprehended, was feifed with Rigours frequently returning, after which she began to complain of one of her Breafts; for which, by the Persuasion of her Midwise, she anointed the same with the Ung. Populn. and Spir. Vini, their usual Application at all Times: But the Fluxion still encreasing, with large Tumefaction, Tention and Inflammation, I was confulted, and found the Glands of the Breast very much obstructed by the Afflux of Milk coagulating therein, and threatening Apostemation in the upper Part, together with large Induration throughout the whole Body of the Breaft, which upon handling was very painful: However, no Matter being as yet made, at least perceptible, I directed first of all the Pultis abovemention'd, ex Flor. Chamomel. &c. puting in the Mica Panis in Place of the Farina, to be laid over the whole Breaft, having first well embrocated round about cum Ung. Sambuc. She was kept low as her Fever requir'd, and drank sparingly of Liquors, observing they always encreas'd her Pain, by running prefently, as she express'd herself, into her Breaft.

When finding, after a second Application, no Likelihood of discussing the Humour, I chang'd it for that ex Ficulus & Lillis albis, described for suppurating the Phlegmon that Way tending, and which soon after promoted the Maturation already begun in the upper Part, where the Tumour now seemed to rise up in a Cone, and the Matter after appearing sensibly to suctuate, I laid a Bit of Cau-

flic through a Perforation made in a Plaister for that Purpose, and in the Evening let out the same, which was of itself ready to burst through, before

the Application.

Yet notwithstanding this Appearance of a thorough Suppuration; after the Discharge, I found the Apostemation was but superficial, the other Parts of the Breast continuing still hard and painful, with its Glands, particularly the larger under

the Mammilla, much more fo.

Upon Separation of this Eschar, I found a Sinus that was however but curaneous, running higher up towards the Clavicle, this I laid open, here being no Prospect of Union by Compress, of which the Part was incapable; and whilst I was deterging the Wound above with the Precipit. and Linim Arc. as it was near upon healing up, I perceived Manter making way through the Flesh, seeming to arise from that large and deep Gland below in the Body of the Breast.

Dilating the Orifice with a Bit of Gentian-Root, and the Day following, passing down my Instrument, I found it running deep under the faid Glandulous Body, and by pressing the Breast gently upwards from below, the Matter began to rife daily in great Quantity after Extraction of the Root intruded, and which now choaked in the same till let forth at the Times of Dreffing: So that observing no Likelihood of bringing about her Cure this Way, and finding it impracticable to lay open the Sims, I directed a Silver Canula to be made, with fuitable Pipe and flattish Rim, which I enter'd readily, the Matter, as it rose up freely emptying itself thereby, to the Patient's Satisfaction: Nor did I expect more from this Way of Dreffing, unless greater Ease to my Patient than the other, the Situation of the Orifice being above,

and so not favouring the Discharge of the Matter, otherwise than as it rose up and overslow'd: The Cavity also lying very deep, and her utmost Desire being only to be freed from Pain; the very mentioning of Disating giving Occasion to withdraw herself from me: When having try'd another Gentleman of the same Profession for some Weeks, and again discharg'd him; she sent for me a second Time: Her Pain being much encreas'd by throwing out the Pipe, and giving her, I suppose, a fresh Alarm.

I was not at all concern'd that the Camula had been left out, which was intended only, to palliage for some Time, till I could convince her of the Necessity of taking other Measures; endeavouring to choak in the Matter, and try to put the Breast upon Apostemating in some other more depending

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To this End, I thrust in a Tent of Lint, rolled pretty tight, and thereby filled up the Orifice, with an adhefive Plaister on the Outside, also a large One of the Mucilages encompassing the whole Breaft, on account of the great Induration all round, and intending not to move these Dreffings for two or three Days; but before fuch Time was expir'd, the Matter being much increased, as was to be expected, with Inflammation, my Patient grew impatient, and the fecond Night finding the could have no Rest, her Nurse and she together, taking off the sticking Plaister, the upper Part of the Tent adhering thereto was also at the same Time extracted, and great Quantity of Pus pouring prefently out, upon which growing eafy, the past the rest of the Night in Quiet.

When I came the next Morning, and was inform'd what had been done, I told her plainly, If the would not give way to what I had thereby pro-

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pos'd, it would be to no Purpose for me to give farther Attendance: Endeavouring once more to convince her, that till we had an Orifice that might favour the emptying of her Breaft, the might be in the fame Plight, if not much worfe, through a Hectic State, half a Year after, as the then was, and as far fom her Cure. When finding her not so pliable as I expected to my Propofal, I had now Thoughts of leaving her, as before she had withdrawn from me. However, taking a View of the Breast at this Time, I perceiv'd the Matter still running out, and entering my Probe, which without any Pain given her thereby, had an eafy Admittance through the Body of that large Gland, with my Fingers of my other Hand at the Bottom on the Outlide of the Breaft. tho' at some Distance, I could feel the Extremity thereof; fo that drawing forth my Instrument, after much Perswasion, I prevail'd once more to choak up the old Orifice at the Top, promifing to be with her the next Day, if she could not longer dispense with the Disturbance, or till the Matter was funk lower, and should shew it self in a fitter Place for the Discharge as aforemention'd.

Visiting her accordingly, the towards the Evening of the next Day, she complain dexceedingly of her Pain, the Breast appearing sull and again instand as before; yet giving her farther Encouragement of her being quickly well, and the great Likelihood there was of obtaining our Desire, could she hold out but a few Hours longer, I lest her without moving the Dressings, with a farther Assurance that I would return to her early the next Morning: But her Courage, it seems, failing, or her Pain surmounting, knowing it was in her Power to ease her self, if I resus d, she call'd me up early the next Morning, ordering the Messenger

fenger to acquaint me, that if I would not come away presently and let out the Matter, she would pull out the Tent her self, let the Consequence be as it would.

In this Interim, I had given Orders for a large Steel Instrument, a little bent, flattish and pointed at one End, having an Eye at the other, like the Seton Needles, into which I had drawn about half a Dozen Needles-full of stitching Silk, de-

fending the Point with a Bit of Plaister.

Taking this along with me, in about an Hours Time I went to fee her, and found her with a large Bason at her Breast, letting out the Matter; under the Discharge of which, together with the Pain she had undergone, she seemed ready to faint.

Hereupon, unwilling to lose the Opportunity, with my Probe, as usually, in my Hand, as if going to pass the same, whilst my Patient was thus leaning upon her Nurse's Arm with her Head, in a Sort of Deliquium or Lypothymy, I changed my Probe unheeded to them both, and, concealing the Silk in my Hand, passed down the Steel one, and forced the same through with very little Complaint, having kept them ignorant of what I had done, till I had drawn my said Flammula through also.

Nevertheless, so intricate was the Sinus, and the Matter so bedded as it were in the Body of the Gland, that it was several Days before it found its Way out by this Orifice at the Bottom. However, leaving out the Tent above, and anointing the Flammula with my Digestive for its freer Passage up and down, she continued easy, and soon after ceasing to run out at Top, it came at length to discharge it self the Way intended, which I now somewhat dilated, for its readier Vent, by a

fine on thin Piece of the Gentian Root, thrust up between the Silk, whence in few Days, being still farther enlarged, there was made to compleat a Drain, that foon after cutting out the Silk, I permitted the upper Orifice to heal up, putting a Canmula of fufficient Length into this lower, which was continued fome Time longer for Prevention, or till the Matter ceased here also to flow out, the Breast being now cover'd with the Emplast, ex Ammoniaco, by which the Induration gradually refolved; fo that laying aside the Camula, and putting up a foft easy Tent, dipp'd in the warm Liniment, and daily leffening the fame, this lower Wound also was healed, and her Cure compleated.

A Case of the like Nature, after more than Twelve Months fuccessless Endeavours, of several Doctresses, famous for the Cure of fore Breasts, as also of some others, was soon after recommended to me; upon the Examination whereof, finding feveral Orifices, each with a large Plug or a Rag dipp'd into some Balsam and thrust in, upon the drawing out of which there issued forth great Quantity of a dreggy and stinking Matter, gathering a-fresh between the Times of Dressing, being thereby shut in.

After farther Enquiry, I discover'd the Spring-Head of all these little Rivulets, arose principally from the Glandulous Body in the midst or under the Mammilla, first deeply Apostemating and raising feveral small Abscesses round about, but still superiour or lying above the Source of the Mischief, and infufficient for disburthening the same, other-

wife than as the Matter superabounded.

Which being the State of the Cafe, I began her Cure by passing a small but long Piece of Gentian, fuitably proportion'd, from the most likely Orifice, down into the Glandulous Body, throwing out all the other Tents, and dreffing only with an external Pledgit of the common Digestive, suffering them to heal or continue open, as the natural Bent of the Humour should dispose, by which being render'd easy in these Parts, she was better able to endure the Stretch of the Root in one of them.

This Method was continued till I had made Way for a Piece of Root near three Inches in Length, and of the Thickness of my little Finger; when having thinned the Sinus, I more strictly examined and found, especially towards the Extent, that I must cut more than an Inch thick, with three in Length, before I could come at the Bottom, or lay a good Foundation for Healing.

After this, concealing my real Defign from the Patient, tho' I had apprifed fome of her Relations, by Appointment I met that worthy Man, my good Friend Mr. Blundel, and after a short Consultation by our felves, he readily agreed to the Cutting into the Cavity, and pitch'd upon a Pair of large frongshank'd Probe-Sciffars I had provided for the Work, where having an Apparatus ready, though out of Sight, for the same, we came to the Gentlewoman. and gave her Encouragement for a speedy Cure. by her admitting us to open a small Part of that Hollowness, she having been exceedingly harrass'd by other Methods, and for fo long Time alfo, was more easily prevail'd on to submit her self; and leaning her Head on the Bosom of one of her Friends, I advanced the Button-Shank of the Sciffars towards the farthest Part of the faid Cavity, and with one Stroke or Gripe laid open the same; whereupon a divided Artery spurted out, but which after permitting to bleed a little while, was quickly restrain'd, by thrusting down a hard Button dipp'd in the Powder of crude Alum, on the Place whence it sprung; filling the rest of the Cavity with dry Dossils, also Bolsters both of Tow and Linnen Cloth dipp'd in Oxycrate, and sprinkled over with Farina Volatil, on the Outside, rolling up much after the Manner directed for the fractur'd Clavicle, ordering the Nurse to keep her Hand down close upon the Dressings for some Hours, or till they were grown dry.

That Night she was dispos'd for Rest, with a gentle Anodyne Draught ex Aq. Papav. 3j. Sal Nitri

3j. Syr. de Meconio 3vj.

The other Orifices, which were five in Number, were dress'd up as before with a Digestive, not doubting their Healing now the great Fund of Matter was emptied, and the Supply therefrom

cut off.

place

ng my real Defign Two Days after, in regard to the Flux of Blood deferr'd so long, we met again, and carefully took off the Dreffings, intending to leave the Button upon the Artery, if it came not away of it felf: But, to our Consternation, together therewith started up an extraneous Body, which, upon Enquiry, we found to be a Rag roll'd up Tent-Fashion; which, as we could gather, had lain there feveral Months, grown black and flinking, being by one of her former Operators doubtless thrust in, and finking lower, escaped after as well Remembrance as Sight; which fufficiently justified our Proceeding, and without which it had been very unlikely, at least for some Time, it could have been

This discover'd and remov'd, we fill'd up the Wound with fost Dossils, dipp'd in the warm Liniment of Arcaus, which being digested therewith, and a little Precipit. rub. fprinkled on the Sloughs, and strewed round about to correct the Flesh, was foon after deterged, fo that gradually lestening the faid Dossils, the Wound was incarned, and, by the dry Lint only, cicatrised in about five Weeks Time from the laying open the Cavity; the Sores above all healing up quickly after; but an Induration remaining longer, gradually resolved

under the Diagalbanum of Bates.

Towards the Close of the Work, and to hasten off the Remains of this Induration, she was purged between whiles with gr. xij. of Calomel. in a Bolus over Night, with Cons. Ros. and the Decoct. Sena cum Manna vel Syr. Ros. Solut. the next Morning: And being tired out before by the Continuance of her Pain, a Hectic Pulse, with Colliquative Sweats threatening a Marasmus, was order'd also to take Asses Milk, with the Testaceous Powders, which recruiting her Flesh, she soon after recovered, and regain'd her former State of Health.

Of other Disorders befalling Women in Child-bed, or upon their Delivery.

The next of the Maladies to be taken Notice Abscesses of, and which we forgot to mention among the from the Tumours in our first Section, are those ansing from Lochia a Suppression of the Lochia, or natural Purgations, in the Time vulgarly by the Midwives called Cleansings, atten-of Childding Women the first Days after their Labour, be-Bed. ing truly excrementicious, and which ought therefore to be cast forth, lest otherwise retain'd contrary to Nature's Appointment, contaminating the Mass of Blood, a Fever is raised, and that of the worst Kind, by which Life is often endanger'd, unless she steps in between, and congregating as it were the Poison into some particular Part of the Body, throws the same critically forth in the Form of an Abscess.

Whether

Whether or no these Humours, thus slowing from the Womb at these Times, have any thing in them of a venene or poisonous Nature, may perhaps be question'd by some, tho' seeming more than probable to others: Nor is it any thing absurd to believe, that during the Time of their Collection about the Uterus, whose Substance is thereby so thicken'd and enlarg'd, as if stuff'd with a Parenchyma, being here as it were stagnis'd, and out of the Laws of Circulation, growing putrid, should put on a deleterious Quality, requiring therefore, according to Nature's Appointment, after Delivery, to be spewed out of the Glands, whereby the Womb again subsiding, returns soon after

to its priftine Magnitude.

I am the rather inclining to this Belief myself, not so much from the ill Colour and Scent of the faid Lochia, but the ill Effects from their Suppression, fuitable to some of those from other Poisons mixed with the Juices of the Blood, and impressing the same with the like gangrenous Disposition, together with the most formidable Symptoms excited in that fubtil Fluid of the Nerves, diffurbing their whole System, such as Rigours, Tremours, Spasms or Subsultus, interrupted Respiration, undulating, intermitting Pulfe, Coma's, cold Sweats and Death; or, feizing some particular Parts, inducing Necrofis thereon, or Mortification, after the Manner produced by some Epidemical, malign Small-Pox. unless, as above remark'd, Nature be strong enough to overcome and vanquish the deadly Toxic; or, separating from the rest of the Mass, to throw forth the morbid Matter, by raising an Apostem in some of the Parts; altho' here too, sometimes, we have but a poor Chance for an Escape, the same being too much for the Art of Surgery, and situate out of Reach, whence an incurable Fiftula arising, the

the Patient, tho' it may be not fo fuddenly, vet dies more miferably under a Marasmus. A Case or two of which Nature, however feeming defperate, where the Success furmounted my own Expectation, I will here infert, fo foon as I have

given you the following Instructions.

That however in the Tumours or Abscelles from Milk, where the Fever was of that Species Phylicians call Eureyns, five benigna, and Symptomatical there may be little need of Phylical Administration. especially the Time of cleansing being over: vet in all those arising from the lochial Suppression, when the same turns presently to a Zuvoxos, feu vere maligna, the Physician is timely to be consulted, that by proper Methods, they may be again promoted; whilft the Vital Indication is also provided for, by fuch Cordial and Alexipharmic Remedies, as may Subdue the Malignity, and fortify the Spirits, preferve the Tone of the Blood, and prevent the Grumescency thereof on the one Hand, or running out into Fluxes on the other; whilst the Surgeon uses his utmost Endeavours to stop the Progress of a Gangrene, if any fuch attends, or haftens Maturation of the Tumour appearing, if the same will not admit of Resolution, as we have given Directions for the Phlegmon terminating in a Mortification, or otherwise tending to a Suppuration.

A middle-aged Woman, of a thin Habit, in-Hist, 112. clining to a Hellic, by too early rifing (the Bane of Thousands at these Times) and getting Cold, had her Lochia stopt suddenly upon her, by which a malignant Fever, with frequent Return of Rigours, came on, and after two or three Days she began to complain of a great Pain in the Bottom of her Belly towards the Groin, firetching obliquely upwards on the same Side. The fourth Day a Streak of Red appeared on the Place, which in the EvenBubo, hard and painful.

When they had try'd for a few Days her Midwife's Applications, the Tumour still farther encreafing, and threatening an Abscess, I was admitted to take a View, just as they were about to apply fome roafted Onions, to which, having examin'd the Part, I readily gave way: But deliver'd my Opinion in very doubtful Terms, in that of a Prognostic, viz. That as there now appear'd to be an Effort of Nature, to throw off some Impurities feparated from the Blood, and likely to turn to Matter by the great Pain attending, it was by all Means necessary the same should be invited outwards and discharged; but considering its' Rise from the Child-Bed Purgation stop'd, polluting the Mass with a malign Ferment, it was a dangerous Case: And by the great Hardness extending it self high upon the Belly, very likely to penetrate the Cavity thereof, and turn to a Fiftula, as difficultly, if at all to be cured.

Coming to her next Day, I found her very restless, melting away in Sweats, with a low, quick and unequal Pulse, yet high Colour in her Face, crying out of great Pain, not only on one Side, but the whole Region of the Womb and Bladder, from which she had discharged a small Quantity of Urine, tho at several Times, which appearing highly inslammatory, I was still fearful those Parts were affected, and that the Original of this threatening Mischief lay on the Inside of the Peritoneum.

Upon taking off the Onions, I thought I felt Matter underneath, the very deep, and having provided a Cataplasm ex Rad. Lill. Ficulus Ping. as directed for Maturation of the Phlegmon, the same was now laid on, in Hopes that in a Day or two

at farthest, if we could keep her so long alive, we should find the Tumour sit for opening; to hasten which, tho' she had no Stool for three Days past, yet I declin'd giving even a common Glysser at this time, for fear of checking the Absects, too far advanc'd, and unsafe to be diverted other Ways: So that contenting my self with directing an Alexipharmic Bolus ex Pulv. Lap. Contrayer. O Theriac. Andr. a 3j. cum Syr. de Croco q. s. also a Pearl Julap for the Support of her Spirits, I lest her for the prefent: But late the same Evening was sent for in great Hast, her Friends thinking she was dying.

But understanding she had at all Times a weak System of those Parts, and was subject to Hysteric Symptoms, I was in Hopes this might be no other than a Paroxysm of that Kind; upon which Ac-

Piece of the Lap. Inform on the ming Plut of the

count I strait directed for her as follows.

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First of all, for quickening and promoting an Expansion of her Spirits, or Raising her drooping Pulse, as also to secure her from Convulsions, a large Vesicatory was laid on betwixt her Shoulders: And to assist Nature in throwing the malign and morbid Matter still farther outward, a Bolus and Julap as follows.

Re Rad. Contrayer. Is. Pulv. e Chel. Canc. C. Is. Croci Castor. a gr. v. Conf. Alkerm. q. s. m. f. Bolus sumendus quam primum, & repetendus deinde via. quaque hora superbidendo Cochl. quatuor aut quinque Julap: sequentis cujus totidem bibat per se in intervallis vel in languoribus.

R. Aq. Last. Alex. Ceraf. Nigr. a Ziij. Theriacal. fillat. Zij. Bryon. c. Zj. Tinst. Crock Aq. Theriaca. Of Tumours in Child-bed Women. Sect. X. extr. 3ss. Conf. Alkerm. S. o. 3j. Syr. e Cort. citri 3j. m.

R. Spir. C. C. per se 3ss. sumat gut. xx. in quolibet potulento subinde.

R. Spir. Sal. Armon. cum calce destillat. in phiala orificio amplo sed bene obturato \$\frac{3}{5}s. cui, amoto illo, olfaciat, vel naribus admoveatur sub deliquio.

The Cataplasm, lying in good Order, was continued till next Morning; when, returning early, I found her somewhat reliev'd of those Nervous Symptoms, having much more Warmth, a stronger, yet still a little intermitting Pulse, less Tremour

and Fainting.

Removing the Pultis, I found the Mattter fo far advanced, that I apply'd at the same Time a large Piece of the Lap. Infern. on the rising Part of the Tumour which was in the Groin, and about Noon return'd, when her Blifter was cut, but in Consideration of her fainting under the Smart and Difcharge thereof, I defer'd Opening till towards Evening; when I cut through the Eschar, and suffer'd, but without pressing, what would, of a greenish, offensive or stinking Pus, to run out, which discharged near a Pint in Quantity: After which she grew very easy, the Eschar being dress'd up with a Pledgit of Bafilicon, I apply'd all round, at this Dreffing, some more of the same Cataplasm, to foften the Induration of the Muscles, and farther the Suppuration.

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The Day following, the Tumour was quite sunk by the vast Discharge, the Nurse acquainting me she had been forced to shift the Clouts that were put to her under the Napkin, pin'd lightly round for the Support of the Dressings as well as them, several

feveral times in the Night, being foul or wet with the Matter, and that which I now order'd her to take away, (which had not lain on above two Hours) I perceived in like Condition, fending forth fo strong a Stench as made the Room offensive to come into.

Thinking it needless to make any Probation at this Time, of which the was exceeding fearful, I contented my felf with dreffing up the Eschar as before, adding only a little Spir. Tereb. to the hot Bafilicon in which the Pledgit was dip'd, for correcting in some Measure the Putrifaction, and leaving off the Pultis, I had order dan Elixiviate Fotus of the Discutient Plants, such as the Summit. Centaur. Hyper. Flor. Chamomel. Melilot. Sambue. Fol. Laur. Bac. Juniper. these being boiled with a Handful of Wood-Ashes in Spring-Water, were after strained, to a Quart of which boiling hot, being added, as customarily, three or four Spoonfuls of Camphorated Spirit, and applied with hot Flannels strongly express dall over the Belly: The Tumour, as I obferved, being now funk about the Eschar, and the Abdominal Muscles, which two or three Days before felt thick and hard, appearing again lank and flaccid as the Groin it felf, tho as yet too painful to bear either Compression or any Sort of Bandage.

For alleviating this Tenderness of the Abdomen,

I prescribed this following Liniment.

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R. Ol. Lumbric. & Ung. Dialth. a 3j. Sperm. Ceti 3jfs. Ol. Anif. Chym. 3j. m. s. a. & f. Litus: quocum (coram igne liquefacta) manu calida foveatur Regio Abdominis, precipue ejus pars sinistra, post usum sotus pannum laneum, eodem imbutum, superponendo.

of her not having had a Stool for several Days past.
Vol. II.

X
R. Decost

Re Decost. Com. pro Clyft. 3xij. Mel. Mercurial. Syr. Viol. a 3j. Sal. Gem. 3j.m. f. Enema injiciendum quamprimum parari postest.

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I was at this Time again press'd by her Friends to deliver my Judgment of her Case, which I rold them was still very doubtful; for altho' I had not examin'd the Sinus, yet by the Discharge which continued in large Quantity, it was plain the same ran very deep among the Muscles of the lower Belly, if not into its Cavity, of which I intended as well to fatisfy my felf as them, in a Day or two more, being willing to give her Respite from any farther Disturbance, either of Mind or Body, till the Eschar was entirely separated, and her Strength a little better recruited; for which End she continued her Cordial Bolus Night and Morning, with the Julap as before: Her Diet was Chicken-Broth. Banley and Water-Gruels, with a little Wine; likewife a thin Jelly of Hartsborn Shavings, also another Julap loaded with the testaceous or absorbent Powders ex Margar. Coral. rub. Chel. Canc. fimpl. in order to strengthen the enfeebled Tone of her Blood. which was still prone to run out into Sweats: Almond Milks and Emulfions to contemperate the Heat of the same, and prevent the Hellic she feem'd to be threaten'd withal.

In two or three Days more, the Eschar throwing off, I earneftly press'd them for a Consultation, but her Midwife having been very lavish in setting forth my Abilities, and giving some Instances of my Success, in Cases of the like kind, at least so represented by her, altho' wide in Fact, particularly a very remarkable one upon herfelf, which shall be recited presently, they would hear of no other Affistance, more especially the Malady being

ing

so situate as it was. Wherefore having only prevail'd for the introducing of my Probe, I found a very eafy Admittance for the same, which was prefently buried in its whole Length, running obliquely from the Inguen towards the Os Ileon, under the ablique and transverse Muscles of the Abdomen. by which I found one Part of my Prognostic likely to be verified, and drawing out the Instrument, I enter'd a fearthing Candle of greater Length, to find the Extent of the Sinuofity, which was little more than what I had before reached. I then attempted, by bearing downwards, to find, as I withdrew the Candle, but could not discover, a Penetration into the Pelvis, or through the Coats of the Peri-

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Having thus fatisfy'd my Enquiry, I drefs'd up the Ulcer with a large Dossil strung, of suitable Proportion to the Cavity, first arm'd with Linim. Arcai, in the Place of Basilicon, now lest off upon the Fall of the Eschar; and dipping it in a Panniken of the same melted down with about a fixth Part of Tinct. Myrrh. & Alves, in order to correct the Putrid Condition thereof, strewing the Bottom, for the same End, with the Precip. rub. the Midwife in the mean time, who was always by at the Time of Dressing, applying the hot Stuphes.

At a Weeks End from the Separation of the Eschar, the Discharge lessen'd, and the Patient feem'd to grow stronger, the Ulcer in the Groin filling up with Flesh, the Tenderness of the Abdominal Muscles wearing off; so that I now endeayour'd, by gentle Compression and a straiter Bandage, as the Part would admit, to agglutinate the Cavity: But finding my Intention that way fruitless, when I had brought the external Ulcer into a narrower Compass, I seriously propos'd to her, finding her so exceedingly averse to the dilating or lay- X_2

ing it open, Whether she thought preferable, a Fiftula without cutting, with its Consequences at length, a gradual Wasting of her Strength by the Discharge thereof, or, in plain Terms, a Consumption, Or, a reasonable Prospect of her Cure by the faid Dilatation? making as light as I could of this latter, for her greater Encouragement; when dreffing up again for the present, I left her to confider of it till next Day; by which Time I found the Midwife's Rhetorick had prevail'd; and, with greater Resolution than I expected, she told me the would submit herself to my Disposal, who having provided all things ready, in a Dish by the Bed-side, (however out of her Sight) in order to the Work, viz. large Dossils of Lint roll'd hard up, of Several Sizes, others of Tow, with Compresses of the Same, a Plate with Farina Tritici, a Bason of Oxycrate cum Alb. Ov. restringent Powders ex Pulv. Gal. Bolo vero, Chalcant. &c. in distinct Papers, as I should find Occasion, with a Roller of Suitable Length, I took off the Dreffings, again entering the Probe, and farther satisfying my self in the Course of the Simus, having, as I observ'd before, a thin Subject to deal with, truffing to my Sciffars, I enter'd the Shank of the Button-End, and inftantly cutting through, passed the same still higher up, my Patient knowing not my farther Defign, when redoubling the Stroke, I laid open the whole Cavity, finding no other than a venal Hamorrhage, I clapp'd down my Dossils with what Dispatch I could, dipp'd first in the Bole singly, with which having cover'd the Bottom of the Incision, I laid down others of Tow, till the whole was fill'd up close; then laying on the Bolsters of the same, wrung out of Oxycrate, and sprinkled thick with the Farina, I brought over the Ends of a double-headed Roller alternately, as well up the Twift as round the

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the Trunk of the Body, till I had made all secure; the Patient tho' making a great Noise, yet not fainting all the Time, but before Night she grew severish again and restless; tho' we had provided for her a gentle Anodine Draught, she had slept but little, complaining of great Pain in her Belly, which when she happen'd to cough, from the Shock of the Diaphragm together with that of the Peri-

tonæum, forced her upon crying out.

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On Removal of our Dreffings the next Day, I perceiv'd an Inflammation all round the Wound, the Edges or Lips thereof lying high and turgid, from their Contusion by the Scissars and Indigestion The lowermost Dossils still adhering of the same. to the Peritonaum, I forbore using any Force to extract them, chusing rather to let them digest off themselves; which I now endeavour'd to promote, by laying fofter Dossils of Lint dipp'd in a warm Mixture of Liniment. Arcai, with about a fourth Part of the Balf. Tereb. having, whilft the same was provided, laid on a warm Stuph express'd out of hot Wine ready at Hand, till the former Fomentation was provided; then covering the Outfide of the Wound with a large Pledgit of Tow faced with the Liniment aforesaid, first embrocating the whole Belly with the Mixture ex Ol. Amygd. Sperm. Ceti, &c. covering the Parts with a fort Flannel, and instead of the Roller, which their Soreness would not suffer for the present, a large Napkin folded in two, being placed the Middle under her Hips, with the Ends brought over and fasten'd on the upper Part towards the found Side, for keeping on the Applications only.

By reason of her Cough, which seemed now more than ever to give Disturbance, I directed the following Linctus and Apozem, with a Pearl Ju-

lap to refresh her under Languer of Spirits.

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 R_{l} Ol.

the I runk of the Body, all I had made

R. Ol. Amygd. d. 3js. Sperm. Ceti cum eodem optime incorporat. 3j. Syr. de Meconio 3j. Syr. Balf. Tolut. 3ss. Sacchar. cand alb. pubv. parum m. exactissime pro Lintu, cujus capiat Cochlear. urgente Tussi, & superbibat Haustulum tepefactum Apos. sequentis.

R. Decoet. Pectoral. depurat. toifs. Tinet. Croci Aq. Theriac. Extr. 3fs. Syr. Capil. Ven. 3j. m.

R. Aq. Lact. Alex. Ceras. nigr. a ziij. Cinnam. Hord. Pæon. C. a ziss. Margarit. pp. zj. Sacchar. q. s. m. f. Julapium, cujus (phiala prius agitata) capiat Cochl. tria vel quatuor in Languoribus.

Continuing coffive, I thought it now absolutely necessary to empty her Bowels, by throwing up the Clyfter formerly prescribed, which answering the Intention, fhe grew much easier, in the Evening flept tolerably, and feemed therewith refresh'd the next Morning, when coming to lift out the Doffils with my Forceps, I found the Lips of the Wound digesting, less tumify'd, the Belly also much less inflamed, the lowermost Dosfil now rising with the rest, appearing also with Corruption; which being remov'd, I could plainly discover the outward Membrane of the Peritoneum lying bare, between four or five Inches in Length, and about one in Breadth: After which laying down gently a foft one dipp'd in the warm Ballam, I lightly fill'd up the Cavity of the Wound with more, and a Pledgit on the Surface as before, arm'd with the Liniment, dressing up again, my Assistant the Midwife always taking Care to apply the Flannels wrung out of the Fomentation.

And thus we continued daily, till the Membrane incarning, and the Symptomatic Fever with Pain and Inflam-

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Inflammation being dispers'd and gone off, she was capable of bearing a gentle Compression and Deligation: Matters appearing in great Forwardness for a speedy Cure; till by an Errour committed in drinking a Draught of small Beer, she fell into a Diarrhaa with Cholic in her Bowels, much hindering the Advance thereof; the Flesh now finking, and as it were melting away, cold Sweats and Deliquium frequently, as at first, returning; for which I made the Provision following.

Re Conf. Fracast. s. m. 3j. Coral. rub. Spec. de Hyacinth. ā 3ss. Rad. Rhei parumper toft. gr. vj. Ol. Cinnamom. Chym. veri gut. j. Extr. Thebiac. gr. j. Syr. de Mentha q. f. ut f. Bolus Sumendus statim, & repetendus 5ta quaque hora (Extracto tamen omisso) & Superbibat Haustulum calidum Apos. Sequentis, cujus bibat loco alterius potulenti, dum fit proclivis ad Fluxum Alvi.

R. C. C. C. 3ij. Nuc. Mofc. contus. 3j. coquentur cum Crusta Panis albi in Aq. Font. q. s. pro Colatura this. sub finem addendo Coccinel. contus. 3j. Liquori per Setaceum trajecto adde Aq. Cinnamom. Hord. 3ij. Mirabil. 3j. Sacchar. alb. chrystal. q. s. m. f. Aposema.

R. Aq. Latt. Alex. Cinnamom, Hord. a 3iij. Conf. Fracast. s.m. 3ij. f. Mixtura in promptu, de qua propinentur Cochl. duo post singulas sedes, Vitrum concutiendo tempore Ulus.

R. Apos. Suprascript. Vini Canariens. a 3ij. Theriac. Andr. 3ss. Solve cum Vitello Ovi & f. Enema, injiciendum post Bolum secundum, hora una vel altera tamen praterita fluxu adbuc persistenti.

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By these Means, continued for two Days or thereabouts, the Loosness was check'd, and her Pains wore off: When to regain the lost Flesh, I sprinkled upon the Ulcer the fine Powder of Myrrh, Aloes and Sarcocolla, as I had before done the Precipitate to mundify, laying over still, as a Digestive, the Liniment Arcai, by which Method we got daily Ground, without farther Relapse, and being sit for the same, it was cicatrised with my Cerate.

After this fo remarkable Escape, I advised her to the Asses-Milk, and the Milk-Diet, by which her Cough and Hectical Disorder wore off, and was entirely vanquish'd: She recovering a good State, and has since born two Children, without

fuffering any unufual Diforder thereby.

Hist. 113. A Woman also middle aged, but of strong Habit and Sanguine, the same Person taken notice of in our last as practising Midwisery, after her own Labour, depending very much on her Constitution, rising too soon, the Lochia stopping, was seised with Shivering, and being got to Bed, soon after great Heat and Thirst, Oppression on the Precordia, with a quick and labouring Pulse.

The next Day she complained of great Pain in her Belly, which being taken for After-Pains, or a Cholical Disturbance, she took of her own Advise, some Sperma Ceti mix'd with Myrrh, also a Clyster of a Decoction of Chamomile Flowers and Oil of Aniseeds: But finding it a Case out of her own Reach, and no Relief from these or other Remedies she had taken, her Fever and Pain encreasing, the third Day she beg'd my Assistance.

Examining the Part, I perceived from the Navel downwards towards the Pubes, great Induration through the Muscles, the same being so tender that she could bear no handling without great Complaint, but as yet there was no Inflammation;

where-

wherefore I directed only for the present, the following Liniment, as an Embrocation, with an Alexipharmic Bolus and Julap, to promote a gentle Perspiration, subdue the Malignity, and excite the Uterine Discharge or Cleansings now suppress'd, and giving Rise to this Disturbance.

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R. Pulv. Lapidis Contray. 3j. Troch. de Myrr. pp. 3s. Croci Castor. a gr. v. Conf. Alker. s. o. q. s. m. f. Bolus vja. quaque hora repetendus.

R. Aq. Last. Alex. Pulegij ā Ziv. Bryon. C. Zij. Sacchar. alb. q. S. m. f. Julap.

R. Ol. Lumbric. Amygd. d. a 3j. Sperm. Ceti 3j. m. f. instar Linimenti ad usum externum panno wallico tepesacto superposito.

But the Hardness still rather encreasing, and she fancying she got Cold in the Time of Anointing, I order'd a Plaister to be laid on, of two Parts the Diagalb. Batei, and one of the Mucilages, to be continued for some Days, with Advice to have her

Boles repeated as before directed.

The second Day after, she sent to me again, and coming to see her, I understood her Complaints were encreased, her Fever high, but her Spirits much exhausted for want of Rest: She now told me her Pain was attended with great Throbbing upon the Region of her Womb, taking off the Plaister, I selt the Induration rather increased, but lying very deep, and inferring by her Pain there was Danger of an Abscess, I threw aside the Plaister for an Anodyne Cataplasm ex decosto Flor. Chamomel, Melilot. Sambuc. in Latte, Mica Panis in consistentiam redast. O vitellis duorum Ovor. cum tamillo Croci additis, the Belly being sirst embrocated with

the Liniment before order'd, and the Application fecured by a fine Towel reaching round her, and

pin'd easily on one Side.

In the Evening, or a about Midnight, the grew delirous, and the next Morning visiting her, I found her in great Agomes through Excels of Pain, attended with Rigors fo strong as made the Bed to shake under her, with sick and fainting Fits, likewife Suppression of Urine, for which, and to footh the Parts of the lower Belly, much conflipated through the great Tention, I instantly directed 3x. of the Decost. Com. 3fs. of Terebinth. Ven. 3ij. of Ol. Lini Rec. with the Yolk of an Egg, to be thrown up Clyster-wise; on Account also of a. Flatulent of Spafmodic Twitch upon the Membrane of the Plewa, frequently recurring and shifting from one Side to another, with a Cough rendering the same almost insupportable, the following Linetus and Apofem.

R. Ol. Amygd. d. 3ifs. Syr. Papav. Rhead. 3i. Sperm.

Ceti. 3j. Sacch. cand. Pulv. q. f. ut f. Linctus.

De quo (phiala conquassata) capiat cochlear largum Bolorum intervallis, superbib, Ziv. Apos. sequentis califacti.

Re Decocti Pect. depurat. tojs. Aq. Pulegij Ziv.

Fimi Equin. petia ligat. Biij.

Stent infusione calida per horam, bis terve agitando Vasem, dein per subsidentiam depuretur; colatura admodum hoc modo clarifacta adde Aq. Theriacal. Ziij. Syr. Papav, errat. Zj. Ol. carui gut. iv. m. s. Aposema.

Upon taking off the Pultis, an Inflammation now appear'd with the Tumour much encreased, Matter also, as I apprehended, tho exceeding deep, seem-

ing to fluctuate about that Region, laying down the same Pultis, I directed this which follows to be got ready against the Afternoon.

Re Rad. Alth. Lil. alb. a 3ij. Fol. Malva, Mercurialis, Perietar. Verbasc. a mj. Flor. Chamomel. Melilot. a mfs. Ficuum ping. No. xx. Sem. Lini ac Fenugr. a 3j.incifa ac contufa, coquantur fufficienter ut per cribrum usui isto adaptat. trajiciantur, vel alioquin in mortario ad pulpam cum pistillo redactis, adde pinguedinis anseris, vel illius defectu, Butiri insulfi Biij, Of. infar pultis, cujus pars proportionata (media fortassis) eum quarta Theriac Lond, admixta supra linteum duplicat. crassiuscule extensa, apponetur prius tepefacta parti abdominis tumefacto.

Directing her Boles to be still continued, only leaving out the Troch. de Myrrh, whose Tafte she could no longer dispense with, and adding the fame Quantity of the Spec. Diambr. f. o. I took my Leave of her for that Time; and indeed by her present Aspect, with the cold Sweats on her Forehead, and weak fluttering Pulfe, was doubtful whether I might find her alive next Day: But by the Strength of her Constitution, she had struggled through another Night, in Extremity of Pain and reftless, as were several of the foregoing.

I found the Tumour now high and prominent. and Matter also more palpable to my Fingers, so that laying on the Remainder of the Pultis, I promifed to return in the Evening, and give Vent to the fame: She had only one Stool from her Clyster, but made not a Drop of Water, which I imputed to the Inflammation of the Bladder, suffering by Confent as it were, so near at hand with the Uterus, and which was not likely to come to rights,

till the Apostem was discharged.

In the Evening I laid a Caustic of the Compass of a Shilling, being in great Concern for the poor Creature till next Day; when I visited her early, found her wonderfully over-joy'd, and in great Ease, the Swelling she told me was broke, and a vast Quantity of a horrible shinking Matter, which I perceiv'd so soon as ever Lenter'd the Chamber, had run down her Belly, gushing between her Thighs, several Clouts and Napkins wet therewith, lying in the Corner of the Room for my In-

species, and then metalin, Burn sidely sin, noishand

But coming to unpin the Napkin, and remove the Pultis, I found the Tumour indeed subsided, and as it were vanish'd; but, to my great Surprife, the Eschar fast and dry, not one Drop of Matter issuing thence: Wherefore examining more narrowly, and taking away the Cloth thrust up to the Pudenda, I call'd for a Candle, perceived more of this stinking Pus dreining off, and as I laid my hand and preffed lightly on the Top where the Eschar was, it ran forth the Vagina as it were in a Stream, a plain Indication that the Seat of the Abscess was in the Uterus, at least betwixt the Coats thereof, which having not only the Peritoneum, but the Abdominal Muscles, that is their Aponeuroses towards the Linea alba, and common outward Teguments to pervade, or make its way, being just arriv'd at the same, burst through the inner Tunic, and empty'd it felf by the Cervix into the Vagina aforesaid: Affording certainly, however easy at present, a very doubtful Event, where fo many Membranous and Nervous Parts were corrupted, and threatened by the Putrifaction: Yet that I might not dispirit the poor Woman, I concealed all Apprehension of Danger, and encourag'd her to hope now for her Recovery, assuring her of my utmost Help: And indeed, tho' I expected

pected nothing for my Pains, I did what ever was

in my Power in order to the fame.

The Eschar, which I had no Occasion to perforate, was dress'd up with the common Digestive of Basilicon, with a large Plaister of Diagalbanum; over this a broad Swathe or Belly-Band, pin'd slack by reason of the Tenderness yet a while of the Parts: Whilst I directed the Fomentation and Injection as follows, to be provided against next Day, together with a Womb-Syringe.

Residential Centaur. Hyperic. a mij. Absinth. Rom. Fol. Laur. Flor. Chamomel. Melilot. a mj. coquantur in Elixivii tenuis q. s. ad Colaturæ thij. cujus singulis thij. addentur tempore usus Spir. Vin. Camph. 3ij. Outatur pro sotu, pannis laneis in eodem servesatio intin-tis & sortiter expressis Regioni Uteri applicatis.

Ry Summit, Hyperic, Centaur, a mj. Hord, Gallie, 3j. coquantur in Aq. F. q. f. pro thj. Colature, cui adde Mel. Rosar, 3ij. Of. Mixtura, Metrenchita seu Syringa auxillio tepide in Uterum frequentur in die injicienda.

Leaving these Directions, I came again the next Day, and caused the Belly to be somented (taking off the Plaister) with Stuphs express d hot and dry out of the Decoclion, renewing them for about Half an Hour, as they grew cold: Then dressing up the Eschar with the warm Basilicon, as before, and laying on the Plaister, after which, with the Syringe, I threw up some of the Injection warmed, by the Pudenda, giving Instructions to the Nurse how the same should be done in my Absence: And thus we continued dressing some sew Days, till the Ulcer being better digested, and the Discharge much decreased, I changed the Injection for the follow-

following, more deterfive, or, as the Surgeons call it, mundificative or cleanling.

Rz Summit. Centaur. Min. Artemis, ā mj. Rad. Aristoloch. rot. 3ss. Gent. 3ij. coquantur in Aq. Hord. q. s. ad thj. addendo Colaturæ Mel. Ros. 3ij. Tinet. Myrrh & Aloes, Vino albo extr. 3ss. m. pro Injectione priori modo utenda.

I might have told you, that from the Time of the Abscess bursting, the Symptoms of Fever, Pain and Inquietude went off, she also rendered her Urine well as before her Illness, and we daily got Ground, notwithstanding the dangerous Situation of the User we had to deal with, the Discharge not only lessening, as we have already observed, but the Putrifaction being corrected, the Matter appearing now laudable, and no way offensive.

She seemed indeed in great Danger of falling into a Hestic: But by ordering a Milk-Diet, Barby-Water and Milk, Balsamic Electuaries, with Traumatic or Vulnerary Decottions, as I shall infert them presently, the same was happily pre-

vented.

The Eschar, by reason the Matter was sed from it, and passed off another way, was the longer before it digested off, which being separated, the Belly lank and the Muscles slaccid, for my Satisfaction, I passed a Wax-Candle of sufficient Length, by the Vagina into the Uterus, and thence up to the outward Uker on the Abdamen, but the same bending in its Passage, I was disappointed: I then try'd a Woman's Chatheter in the Stead of a Probe, but found the same insufficient, not being long enough to answer my Ends: The next Day, I brought a stronger Candle, and bending it upwards into a Form as I thought best suiting my Enquiry,

Enquiry, I introduced the same as before, without the expected Succees: Yet, the I could pever pass so high as the Ulcer in the Abdomen, at about two Inches beneath, I plainly felt the Extremity thereof under the common Coverings, which induced me to think, that the Matter thus suddenly breaking inwardly, and venting it self by the Pudendam, had either not entirely rotted the Aponeuroses of the Muscles above, or made way by some oblique Passage I could not discover now, by reason of the Coincidence thereof, after its sudden sinking away.

Be this as it will, it was very apparent the Body of the Womb must have suffer d great Solution and Ulceration: For the farther healing whereof, and consolidating the Breach above, having corrected the Flesh here, by sprinkling the Precipit. Rub. and now dressing the same with Linim. Arcei in place of the Basilic. I continued my Detersive Injection till the Discharge still lessening, and the Matter of good Colour, without ill Scent, and of as good Consistence, I substituted the following.

R. Herb. Agrimon. Plantag. Sanicul. Equifet. & mj. Rad. Symphici 5j. coquantur in Aq. Fabr. q. f. ad toifs. Sub finem addendo Vini rub. 3iv Colutura adde Mel. Rofar. 3ij. & f. Injectio Uterina, ut prius injicienda.

At the same Time I dip'd an armed Probe in a Mixture of Mel. Rosar cum tantillo Tinet. myrrh. with which I dap'd the outward Uker upon the Fall of the Eschar, that the same might diffuse it self downwards through the Membranous Parts, if finding Passage rowards the Uker in the Uterus, with good Compress all round, and circular Bandage.

dage, as the Sense of the same would admit, endeavouring their Agglutination, which was very remarkably, in a short Time also, accomplish'd. and the Uker, as well outwardly as inwardly healed up: The former giving us little more Difturbance, than if the faid Eschar had been made on any other Part unconcern'd with the Abscess, altho' the first Days there was certainly a near Commu-

nication.

the Almander of the Modeler share we If it be here enquir'd. Why I used no Injection from the outward Ulcer into the Cavity underneath, as well as by the Vagina to the Uterus? I answer, that the Abscess breaking thus before I was aware, or could have Opportunity of cutting through, had render'd, as was manifest, the Communication less pervious to the same, by that time the E_{f} char was cast off: Besides, had the Intercourse been more demonstrable, I should object first of all my Fears, that if the same could not have found its Passage, as did the Matter, by the outward Privity, it might have hindered, rather than promoted, Consolidation of the Parts, by increasing the Simofity, or falling into the Pelvis, laid Foundation for some after Diffurbance, to which the same was not fo liable in passing up to the Uterus, whence its Return back was more facile and commodious: Besides, as the outward Uker, or the Parts immediately underneath, had now no Marks of Putrifaction. but returned in few Days to their former found State, lying foft and easy without Tention, Inflammation, and but little Hardness; the gentle Warmth of a Spiritous Fomentation round about, with the Limiment, Tincture and mel, (the Slough being cast off, and the Ulcer mundify'd,) were all which were required or found wanting.

The Balsamic Electuary and Vulnerary Decoction I kept her to, for the greatest Part of the Time af(

ter the breaking of the Apostem, and which I dare fay afforded great Assistance in expediting her Cure, were these.

R. Cons. Ros. rub. 3iss. Bals. Lucatel. 3ss. Pulv. Oliban. 3jss. Bals. Peru Hj. Syr. de Symphito q. s. m. f. Elect.

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De quo capiat ad magnitud.n.m. mane ac vesperi superbibendo ziv. Apos. infra scripti, cujus eandem quant. bibat per se quarta pom.

Re Rad. de Symphito 3j. Fol. Capil. Ven. Tussilag. Hyperic. Alchymil. a mj. Plantag. Pentaphil. a mss.

'Coquantur in Aq. F. tovj. ad Medias sub finem addendo Vini alb. toss. & Colatura clara per subsidentiam Syr. Bals. Tolut. 3j. singulis ejusdem libris.

A Butcher's Wife, by the Bars without Bishops-Hist. 114, gate, of a full and strong Habit, after a hard Labour and undue Cleansings, fell into a putrid Fever, intermitting with irregular Exacerbations and Remissions; soon after which, from a Translation of the morbid Matter settled thereon, she began to make Complaint of Pain at the Bottom of her Belly, as I remember, on the left Side thereof, where she quickly perceived a Hardness gradually increasing, insomuch that she was hindered from going about, or standing upright, and indeed at length from sitting in her Chair, being wholly confin'd thereby to her Bed.

After several Weeks she consulted me, who found her, through the great Inquietude and Fatigue of Pain, reduced of a sudden, from a fat and bulky, to the Condition of a Hestical, emaciated or Consumptive Person, with violent Cough, attended with extravagant or prosuse Sweats: To moderate which, and temper her Blood, I pre-Vol. II.

feribed a Pectoral Linctus ex Ol. Amyg. d. rec. Sperm. Ceti ac Syr. Dialth. likewise an Aposem ex Decosto Pect. cum Syr. Balf. Tolut. for her Heat and Sweats, as also the Trouble she had in rendering her Urine, an Emulsion ex Sem. iv. fr. Papav. alb. Amygd. dul. decort. in Aq. Hord. cum Gum. Arabic. Solut.

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To the Tumour, which lay deep under the Muscles, stretching from the Groin upwards, but without any Appearance of coming to Suppuration, a Discutient Fomentation, with some Emollients added thereunto, such as a Decoction ex Summit. Centaur. Hyperic. Flor. Chamomeli, Sambuci; Fol. malvæ, Verbasci, parietar. in Milk, with soft Flannels wrung hot out of the same; after which a Gummy

Plaister was laid on.

But these making no Impression, the Tumour continuing at a Stand, and her Strength daily decaying, through her want of Reft, she sent for Dr. B-1, who gave her feveral Antefebrile and Antispalmodic Medicines, for the Convultions, as the called them, in her Bowels, not much regarding the Induration: And being tired with his Course, she called in Sir D-d H-n, who returned her to her Oil and Sperm. Ceti, with a gentle Anodyne Draught Night and Morning, ex Ol. Amygd. & Syr. de meconio a 3/s. with the foregoing also a Pultis of a Decoction of some of the like Plants thickened with Crumbs of White-Bread; telling her, (in the usual Phrase of some who render themselves difficult to come at, or rife rather by Management than Merit) that had he been call'd fooner, he could have cur'd her, but it was now too late, the Case being so far gone: Which implies, I think, fomewhat like, if not the very same, that those who had been first consulted, and who had some Pretensions to a better Knowledge in Surgery, tho' not

not to the Practice of Deliveries, than himself, had

not acted as they ought.

Thus leaving her with this Melancholy Prognoflic, they contented themselves several Days, or, I think, I may say Weeks after, with their own and other good Women's Experiments, so great an Oracle having given up her Case, till the Swelling farther advancing, she was persuaded to send to me again, and request my Help.

I found her still weaker than when I left her last, with great Oppression, quick and low Pulse, Flushing in the Cheeks between whiles, drowned as it were in Sweats, her Cough still continuing, and the Fa-

cies Hippocratica now apparent.

The Tumour was indeed risen higher, but without Inflammation or Fluctuation underneath, tho more reason than ever to believe, if she held out, it would terminate that Way: Wherefore I advised them, to lay on an Emollient and Maturative Cataplasm, leaving out the Discutients, and adding the Rad. Lill. cum sicub. ping.

I persuaded her also, as the last Recourse, to drink the Asses-Milk, with a Morsel of the Absorbent Elect. ex Cons. Rosar. Spec. Diatragac. Margarit. Coral. rub. cum Syr. Dialth. and the following Mixture for her Cough, also a Julap when faint with

Sweats.

R. Aq. Cinnamom, Hord. 3ij. Syr. Balf. Tolut. de Meconio a 3j. f. mixtura cujus capiat Cochlear prelargum aliquo tempore tussi magis infestante.

Ry Aq. Latt. Alex. Ceraf. nigr. ā ziv. Cinnamom, Hord. Pæon. C. ā zifs. Cretæ albæ purif. Margarit. pp. Coral. rub. pp. ā zfs. Sacchar. albi Chrystal. parum. m. f. Julapium de quo (vitrum agitando) capiat Cochl. tria vel quatuor in languoribus, & sudoribus obrutus.

Thus

Thus visiting once in two or three Days, till at length the Part began to inflame, the Induration softening, and Matter fluctuating underneath, I met her Surgeon, and advised a Caustick to be laid on the rising Part: The Day following we came again, when thrusting his Lancet into the Eschar, there discharged a Pint Bason full of a stinking greenish Pus: After which she grew easy, and her Sleep, whereto she had been long a Stranger, return'd naturally.

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The Eschar was dress'd up with the common Digestive, a Pledgit thick spread with Basilicon, and dip'd in a melted Mixture of Liniment cum tantillo Ol. Tereb. a Fomentation being also provided to comfort the Parts of the lower Belly, promote the Digestion of the Ulcer, and dissipate the Indura-

tion.

After three or four Days, according to Appointment, we met again, and examining farther into the Condition thereof, found a manifest Penetration through the *Peritonæum*, into the *Pelvis*, whence the Matter issued out, the not fo strong scented as at first, yet in large Quantity, threatening a Fistula.

The Caustic had designedly been laid on pretty large, or about the Compass of a Shilling, and consequently the Ulcer left behind still larger, in which the Flesh lay round about all putrid, and on pressing of the same, a strong Flatus would issue

forth in Bubbles, making a loud Noise.

The Eschar being separated, the same was strowed thick with the Precipitat. rub. and a soft Dossil, ty'd with Thread for its Extraction, being first dip'd in melted Liniment, a little Bals. Terebinth. and the Tincture of Myrrh, was laid down close to the Bottom, leaving however sufficient Room for the Matter to empty it self between the Times of Dres-

Dressing, after which others, till the whole Cavity was filled up; and lastly a large Pledgit of Tow, armed with the Liniment by it self, for the Outside, laying Compresses as well of Plaister as Cloth, where we suspected the Matter most likely to lodge or be detained within, to press it forth and dispose the Parts for Agglutination, by the Help of Bandage, as well up the Twist as round the Trunk of the Body.

Thus did the Surgeon continue Dreffing, till the Ulcer was well deterged, and a found Flesh began to appear, during which Time she kept to her Asses-Milk, and daily recruited in her Flesh, her Appetite returning: When after some Weeks the Discharge lessening, and gradually dreining away, the Cavity fill'd up, and, with the common Epulotics, was at length firmly cicatris'd: Since which

Time she is again grown strong and lusty.

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or of fThese three Cases I have inserted, as very remarkable for the Recovery of each, under the most threatening Circumstances, whilst many others, I have attended at these Times, have died miserably; the Tumours either never coming to Suppuration, but tending to Gangrene and Mortification, making hereby a more quick Dispatch; or turning to Matter out of Reach of coming to, at least so as to cleanse the Bottom, and lay a Foundation for healing, incurable Fistula's have arisen, and the Patients, after much Pain and Penance, as well Physical as Chirurgical, have obtain'd their Quietus.

of a Procidentia Uteri, ac Prolapsus Vaginæ ejus.

Procidentia Uteri. The next of the Distempers mention'd, peculiar also to the Female Sex, is that vulgarly by Authors

named Procidentia Uteri.

It has been questioned by some, whether the Womb it felf is capable of having its Infide turned outwards: And truly, in its natural State, by which I mean that wherein the Woman is not with Child, I think it is scarce possible: Its close. and usually contracted Mouth, (by some compar'd to that of a Tench) by no means admitting its Fundus or Bottom to fall through: But at the Time of Delivery, the Cafe is alter'd, and the Entrance, which before would not admit a Finger, affords now a Passage to the Fætus and Placenta, and may perhaps therewith, tho' I believe very feldom, let through its upper Part; especially, where the ignorant Midwife pulling hard by the Navel-String, the After-birth adhering thereunto, contributes to the Misfortune, and renders the Case very deplorable.

But altho this is a rare Accident; yet is it very common for weakly Women, not only after difficult Child-Birth, but other laborious and hard Exercise, by which the Ligaments of the Womb, that is, the broad Ones, have been distended, or by some Humour relaxed, to have the Body of the Uterus let down very low into the Vagina, its Cervix, or internal Orifice, appearing just at the Entrance of the Labia Pudend. And this truly is the usual Prolapsus Uteri, that, for which it has been by some mistaken, being the Extraversion, for so I chuse to name it, or turning out of the inward Tunicle of the

the Vagina or Sheath, whose Structure more favours the same: For being made up of many Plica. Folds or Wrinkles the better to fuit, not only to the Man's Penis in the Time of Coition, but to the large Body of the Infant at that of its Exclusion; and these Plica also besmear'd always with a Glandulous Liquor, much more in some Valetudinary States; a Deluge of other Humours also attending, as, in the fluores albi ac catamenia nimis abundantia O diu continuentia, it happens that its Tone being hereby weakened, and the Spring of the orbicular Fibres of its Muscle at the Entrance destroy'd (for here we find there is a Sphineter as well as in the Anus thereto adjoining) a Relaxation attends, and the Plica aforesaid being obliterated, the internal Membrane falls through the Privity, hanging, if not supported by the String-Cloth, between the Woman's Thighs, for feveral Inches, which has given Occasion to some, when finding the same diffended by a Fluxion, appearing hard, round and globular, to fancy the Womb it felf is, as they express themselves, now inverted.

This Disease, when of long Standing, is indeed difficult of Cure, and frequently admits of no other than *Palliative*: Whether a Bearingdown of its Body, beyond its natural Dimensions in the *Vagina*, through the Weakening of its Ligaments, as aforesaid; or the Turning-out of its Sheath from its *Sphinster* being relaxed, and its ru-

gous Coat unfolded.

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In order to the Remedying either Diforder, it is necessary, that the Patient give herself all the Rest that she can, avoiding more particularly the lifting or carrying heavy Burthens, much Walking or Riding, whether in a Goach about the Streets, or on Horse-back out of Town; keeping still and quiet, either Sitting, or, which is still preferable,

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lying

lying in Bed: Altho' it may be otherwise injurious, by rendering her Cachectic, and impairing that Way her Constitution, yet will it forward more than any Thing besides, the keeping up and resettling the weaken'd Parts: For as Ivery well remember a young Gentleman, who got rid of a Rupture by his Consinement under a broken Bone, being too active to have been restrained unless from meer Necessity: So do I also the Case of a Gentlewoman under this Instrmity, who, by the like Misfortune, keeping her Bed for about five Weeks, receiv'd more Help in retrieving her Procidentia, than from all other Means whatever she had used.

She must likewise avoid all gross, phlegmatic and statulent Foods, or whatever, by an over Humidity or Unctuosity, may relax and weaken the Ligaments, or Membranous Parts of the Belly, by occasioning Diarrhaa's or other Fluxes; whilst her Diet is of like Nature with what we have directed for the Oedema, Anasarca, or for those coming out of a Salivation, drying, and of easy Digestion: The Physical Regimen otherways, being the same with that we have also before prescribed, for those labouring under the true Hernia, strengthening and conglutinating.

As for Topics, Plaisters have been directed by the Antients, to be worn forwards on the Region of the Uterus, as well as behind upon the Loins and Spine: Among the former Kind, is a famous one in the Old London Dispensatory, but now obsolete, called by a hard Name, i. e. unregraporal striker; of kin to this, and serving the same Purpose, are the

Empl. de Mastiche, and the Catagmaticum.

Our modern Physicians now generally order Galbanum before, and De minio and Ad Herniam a p. e. behind: But some Habits will bear neither, by reason of the Heat of the Gums inflaming the Skin, and bringing out of Pimples with great Itching; at which Times, leaving the Belly free, I have order'd for the Spine the common Defensative ex Diapalm. cum Bolo, Aceto & Ol. Ros. with the Addition of some other Restringents, such as the Sang. Drac. Ter. Sigil. Bac. Myrt. &c. which they have worn with Advantage, at least as they have thought themselves, and without Complaint.

Among Ointments, the Sumach of the same Pharmacopeia was formerly also celebrated, in the like

Weakness of these Parts.

Others recommend the Suffitus of certain Gums, as Thus Mastich. Benz. with the Nux Mosc. Flor. Ros. &c. thrown over a Chaffing-Dish of Coals, the Patient so placing herself, as to receive the Smoak thereof into her Body.

Others again, prefer the Steam of a Decoction received after the same Manner, prepar'd from Styptic Ingredients, particularly the Cort. Querc. Galla immat. Bac. Myrtil. Cort. Granat. &c. in the

Smith's Water with Red Wine.

A late Writer in the Mathematical Way, tells us that these Remedies, particularly Plaisters and Ointments, are both trisling and injurious: But, with Submission, I must beg the Liberty to dissent

from his Opinion.

All that they can effect, he says, must be by their Stypticity, by which they contract the adjacent Fibres, whence the Juices will be driven in larger Quantity to the Vessels of the Womb, whereby Hæmorrhages and Abortions will be hastened, the very Missortune they are intended to remedy.

Which Corollary is, I think, not rightly deduced, at least, I am sure, does not correspond with

Fact.

How a Plaister on the Spine, or over the Loins, should influence the Blood-Vessels of the Womb af-

ter such a Manner, is not easy to conceive, unless they had more immediate Communication, with those of the outer Teguments of this Region: And then, if the Diameters thereof were thus constringed, there might be Danger of this Plenitude rather a parte ante, than a parte post: But before they can reach to the Spermatic or Hypogastric both Veins and Arteries, which furnish the Uterus, they must pervade not only these Teguments, but the Lumbal Muscles, and the Rami Iliaci, whence these Vessels take their Rise.

Leaving this Enquiry, the Use or End that we propose by these Topics, and which we often find anfwer'd, (I believe our Opponent can give few Instances of a Miscarriage promoted by them) is by their kindly Warmth corroborating, as well as by their restrictive Power bracing up the lax Fibres, if I may be allow'd to borrow a Phrase from these Gentlemen, whence the Membranes and Ligaments feated round about, particularly those of this Part, wiz. the broad Ones inferted into the Offa Ilea, are invigorated and strengthen'd, together with that Part of the Spinal Compage they lie upon, as every one whose cutaneous Texture will admit them sensibly observes, and without which some Persons can no more dispense, through the Feebleness and Aches of these Parts, than others without the Support of their Stays or Bodice.

But, as before, waving Disputes, tho' I do not lay the Stress of a Cure upon these Remedies, yet I think them, as Auxiliaries, necessary to be continued, the like of the Susfumigation, both moist and dry, where the Woman is not with Child, which act by their exiccating Qualities, consuming the supersuous Humidities, constringing the Mouths of the Glandules, and giving a Sort of Tensity to the over lax Fibrilla, by which they may be some-

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what enabled to recover their enfeebled Tone, or to contract themselves and hold up the Womb su-

spended by them.

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Whilst these are used, a Pessus of fit Length and Bigness, must be introduced by the Vagina, to keep up its relaxed Tunicle, and to support the Cervix Uteri from sinking down through the same, which are kept close by the String-Cloth or T. Bandage, being formed usually of some of the Gums, as the Ammon. Galb. Opopon. all comfortable to the Uterine Parts, melted down and formed into oblong Bodies, of the Length of a Finger, and the Thickness of the Thumb, being strung at the thicker and lower End, for the easier Extraction.

But instead of these, as too weighty and cumbersome, I have usually, after well somenting the outward Privity with the restringent Fotus, rolled up a Flannel hard of the like Figure, and dipping it in the hot Liquor, lightly squeesing it, thrust it up into the Vagina; after which, a Bolster of the same wrung hard and hot, on the Outside, for the farther Security and Strengthening the Parts, with the Bandage as before, which has as well supply d

the Place of the Suffitus and Pessus too.

Whilst you are thus busied with your local Applications, the Physician must assist in mending or correcting the Phlegmatic State of the Blood, and strengthen the Tone thereof, by some warm invigorating Medicines, among which, after suitable Evacuation of the Pituitous Saburra, none exceed the Bitters with Chalybiates: Nor must you forget between whiles the Styptic, Agglutinative and Balsamic Ones, we have before observed, as the Terebinthinate, either from Chio, Cyprus, or Strasburg, made into Pills with the Pulv. Rad. de Symphito, Croc. Mart. Ter. Japon. Coral. Sang. Drac. or the like, drinking

drinking after each Dose, a small Draught of an Aposem, prepar'd of the Simples set down in the Cure of Hernia, to which, for avoiding Prolixity, I must refer, whilst I give you an Example or two of this Nature.

Hist. 115.

A poor Woman, foon after a difficult Child-Birth, and hard Usage by her Midwife, complained of a great Weight and bearing down forwards, infomuch, that getting out of Bed, the Body of her Womb, as the thought, appear'd outwards below the Labia, and still increasing with great Fluxion and Tumefaction, in spight of all that feveral Midwives could do for her, at length ftopping up the Passage of her Urine, she was recommended to a Man of that Profession, who told her, as she related after to me, that her Womb was turned out, and that he fear'd there was no Help: However, he directed a Fomentation to stuphe the Part, and advised her to apply to the Surgeon: Accordingly, having try'd his Fotus without any Relief, the Disease still farther increasing, some of the Neighbours, in her Behalf, came to beg my Affiftance.

I perceived the prolapsed Body, whatever it was, thrust out like a Pint-Bottle, with its short but thick Neck upwards, hard and renitent, tending to Gangrene; upon which Account I scarify'd in several Places, and wrung a double Flannel out of boiling hot Claret, therewith surrounding the same till I could get a Fomentation and Cataplasm pre-

pared.

The next Day, I was provided of a Decoction of fome of the Discutient, with the Emollient Simples, as the Summit. Absinth. Centaur. Hyper. Fol. Major. Pulegij Hyosciam. Laur. Malva, Verbasc. with Wood-Ashes, the streined Liquor reserved for the Fomentation, whilst the Magma, being pulped, was boil'd

up in some of the same, and thickened with Farina Fabarum.

After I had well ftuphed the Part, whence a large Gleet had issued forth from the Scarrifications, I wrap'd up the whole with a Cataplasm, adding about a Third of Theriac. Lond. supporting it with her String-Cloth, and confining her strictly to her Bed, where, to fortify her Spirits and dispose her to a gentle Breathing, she took a Morsel of the said Theriaca in a Glass of Canary.

The Day following, I perceived the Tumour begin to relax, by the Scattering her Water, which had been in a Manner for a Week past suppress'd, and which, since the Night before, was almost constantly dripping from her, which at the first Opening I took for Gleet, till I see it trickling

down from the Top.

When'I had bestow'd about Half a Dozen of the hot Flannels, express'd hard from the Fotus, I renew'd the Cataplasm; and found the Tumour, by the next Day, still farther subsided: Insomuch, that, by the Week's End, it began to appear flaccid. like an empty Bag, or like the Scrotum corrugating it felf after the Diffipation a Hernia Aquofa; fothat, leaving out the Emollients, I added some Restringents in their Place, as the Cort. Gran. Flor. Balauft. till at length I made Use only of the Cort. Querc. infus'd in equal Parts of the Smith's Water and Red-Wine: And finding it would now give way, after like Manner as we attempt the Reduction of a Prolapsed Anus, wriggling it from Side to Side with a hot Flannel, I got it up, and perceived plainly that it was no other than the wrinkled inward Membrane of the Vagina, relaxed more especially on one Side thereof, and diftended or inflated to fo great Bulk, the Cervix Uteri quickly showing it self above.

So foon as I had thus reduced the Part, I put up a Cork-Pessus wrap'd in Silk, advising her, upon Occasion of making Water, to draw it forth by the String, and introduce it again; as also to keep in her Bed for some Days, directing her the usual strengthening Gelatinous Foods prescribed for Ruptures, particularly Comfry and Hartsborn Shavings boil'd in Broths; the dry Diet also of Guajac. to prevent the Redundancy of serous Humours in her Blood, strengthening its Tone, and give some Springyness to the Fibres, that, by their contrastile Property, they might be enabled the better to perform their Office; and in three Months, I see her about her Affairs Abroad, entirely recover'd of her former Weakness.

HIST. 116.

An antient Gentlewoman, upwards of Sixty Years, having long laboured under this Weakness. which by supporting with her Cloth, she made a tolerable Shift to go about her House, after a Fit of Sickness, which had continued for some Weeks, and by a Loofness attending, was brought very low, through a meer Deprivation of the Native Heat in the Part, the prolapsed Vagina hanging fome Inches out of the Pudendum, was feifed with a Mortification: It was the first Case of that Nature I had ever feen, being now thirty Years paft. and therefore I thought it necessary to call some more experienc'd Artift than my felf, for an Affifrant, when that able and honest Gentleman, Mafter Layfield, then living in Lime-Street, met me at her House, and examining the Condition of the Part, proposed Extirpation thereof by way of Ligature; which having strait concluded on, I took two strong Needlefuls of fowing Silk, and waxing them together, passed them as high as we could reach, on the Pendulous and putrid Body, making the Tye thereon, and with a Knife a little below.

low, cut off the corrupt and stinking Part thereof: Afterwards somenting those above with a strong Elixivium and Spir. Vini Camph. then melting a little Balf. Terebinth. with some of its Oil, together with a like Quantity of the Tinth. Myrrh. O Aloes, I armed a thick Wad of Tow, of the Compass of a Crown-Piece, with the Ung. Ægypt. and dipping it in the hot Mixture, convey d it close up to the remaining Part on which the Ligature had been made, with a Stuph express d from the Fomentation, a dry one over that, secur'd by the T. Bandage.

After four or five Days thus proceeding, the Mortification being stop'd, the rotten Sloughs together with the Ligature falling off, the Parts digested and deterged, I healed with an Injection prepar'd ex Decocto Fol. Plantag. Equiseti, Agrimon. Sanicul. in a strong Aq. Calcis, adding 3ij of Mel. Ros. and 3j. of a Tincture of Myrrh extracted in Red-Wine: After which she survived, free from any Complaint of the former Nature, for sisteen Years, dying truly

o draw them torth, to the men upon begs

A Maiden, under Twenty, from hard Work, Hist. 1172, put upon her in the lifting up and carrying heavy Burthens, being subject to the White-Flux, with great Weakness in the Loins, came in Company with her Aunt to ask my Advise for this Prolapsus. Upon stricter Enquiry or Inspection of the Part, by opening her Thighs only, without dilating the Labia, I observed the slagging Tunicle of the Vagina, hanging out like a Gut about two Inches, but without Tumour or Instammation, so that by pressing at its Extremity, I could easily get it up to its Place within her Body, although, by walking cross the Room, it would presently appear out again.

She had indeed Youth, as they say, on her Side, yet the Relaxation was of so long standing, and become so habitual, that I was not over forward to promise a Cure: However, I began my Attempt thereof, by strictly confining her to her Bed, where she continued several Weeks, and used constantly twice a Day to put up a Piece of Flannel of the Thickness, tho not the full Length of a Finger, rolled hard up, in the Place of a Pessarium, or, as it is named for Virgins, a Nascalium, first dip'd and wrung hot out of the sollowing Insusion.

R. Cort. Querc. 3j. Granat. 3ss. Gal. immat. 3ij.

Flor. Balaust. mss. Alum. rup. 31.

Infunde coram igne vase co-oporto per horas aliquot in Vini rubri austeri & Aq. Fabr. a ths. & reservetur co-latura ad usum.

She had always three or four of these Nascals ready at hand, with a Ligature at one End, by which to draw them forth, to shift them upon Occasion: And after the introducing each, as she lay in her Bed, her Aunt assisting, express'd also a double Flannel out of the same hot Liquor, and apply'd it close up to the Pudendum, for the farther strengthening the Genital Parts, renewing them, as they grew cold, for several Times.

I should have acquainted you, as a Thing very material, that before I directed these Local Applications, she had been purged, as her Condition would allow, at proper Intervals, with a Decoction of the Radix Rhei, Tamarind. cum Sale Tart. & Syr. Ros. Sol. to lessen at least the Cacochymy in her Blood, and obviate any Mischief arising from the damming up the Humours below, in corrugating the Pores of the Lacuna, spewing out their Li-

quor,

quor, according to some, into the Vagina, or coarctating the Cervix Uteri, denying a Passage thence of the same, as others, and whilst remedying one Evil, laying Foundation for a greater.

During the Use of these Topics, for the farther strengthening the internal Parts, I now order'd the following Mass of Pills to be taken, as here di-

rected, with the Aposem.

Re Pulv. Rad. Rhei 3j. Mastich. Croc. Mart. rest. Ter. Japon. ā 3ss. Terebinth. ven. ad duritiem cott. O pulv. Jij. Bals. Peru Jj. Terebinth. Cypr. q. s. ut f. Mas. pro Pil. x. ad singulas drachmas, quarum quatuor vel quinque deglutientur mane O vesperi cum ziv. Decosti sequentis superhaustis.

R. Rad. de Symphito 3j. Tormentil. 3ss. Plantag. cum toto, Sanîculæ, Bugulæ, ā mss. coquantur leniter in Aq. F. q. s. pro Colaturæ thiss. Sub sinem addendo Vini Clareti thss. O præterea postea Syr. de Symphito, Syr. Bals. Tolut. ā 3j. f. Aposema ad usum supraordinatum.

To the Spina Dorfi was apply'd a Plaister ex part. aqual. Empl. de minio & ad Hern. from whence, as the express'd her self, she found much Comfort in raising her Body, and turning herself in Bed.

And thus, after about a Month or five Weeks Time, I permitted her to fit up therein a Days, and every other Night to get out of it for an Hour, till near a Fortnight longer, gradually enlarging the Time of her Stay, I gave her Leave to rife in a Morning, and to move about the House, having first provided her a couple of the Nascalia, shaped to the Thickness of my little Finger, enclosed in red Sattin, and fasten'd at one End: Which, when she got up, she Vol. II.

introduced and fecured by the T. till, in about three Weeks, perceiving it did not come down when left out, and finding herself stronger in these and all other Parts, than formerly, she left them off, and never after made any Complaint of that Nature.

Before I took my Leave, I order'd the following Corroborative Electurary, and Chalybiat Bitter, to give, as it were, a Spring to the languid State of her Blood, render'd still more torpid and lemous by the Want of Exercise, and to invite Nature to do her Office by the menstrual Purgation, which had been in a manner altogether suppress'd, for many Months past, and which indeed answer'd every way our Expectation, as I understood sometime after by her Relation.

Be Conf. Anthof. Absinth. Rom. à 3ss. Pulv. Rad. Ari c. N. Mosc. Condit. à 3ij. Syr. e Condit. zzris q. s. m. f. Elect. de quo capiat quant. n. m. mane & 5ta pom. superbibendo Cochl. quatuor Julap. sequentis.

Re Aq. Latt. Alex Ceras. nigr. a ziv. Absinth. mag. C. Vini Chalyb. a zj. Rad. Gent. incis. nodulo ligat. O phiala suspens. Dj. Syr. Chalyb. zss. m. instar Julapij.

And thus far of the Prolapsus Uteri, seu melius ejus Vagina: As to the sinking of the Body it self of the Uterus, by Relaxtion of the Ligaments aforesaid, or when its Cervix or Neck salls down in the Sheath, and may be apprehended just within the Labia, the same Method must be used, injoining Rest and Quiet, and putting up a Pessus to support it, till the Ligaments, being strengthened, are better enabled to hold it in its proper Place, taking especial Care, where the Weakness is promoted

moted by the Uterine Fluor, I mean the White One, that due Regard be had, by suitable Evacuation, to purge the Cacochymy, as we told you, and mend the Cacheclic Habit, before you venture upon restrictive and agglutinative Remedies; lest otherwise, the same being impacted, or shut up in the Glandules of the Womb, or from the Lacuna spewed back into the Mass of Blood, a Schirrus, and thence a Cancer, seise upon the Part, or at best a Translation to some other, to the greater Damage and Hurt of the Patient.

Whilst the foregoing Sheets were at the Press, the Beginning of this last June, 1722. a remarkable Accident, relating to this Subject, presented

to us, as follows.

An elderly Woman, having been for fome Years Crafy, as well in her Head, I mean her Intellect, as her Body, and longer incommoded with a Procidentia Uteri, which she was forced to keep up with her String Cloth, being otherwise scarce able to move about the House: Under a Fit of Melancholy, was pondering how to free her felf from this Inconvenience, and, unknown to any Perfon of the Family, taking her Opportunity, first putting herself in a suitable Posture, with one Hand the draws down the prolapsed Body, whilst with her Husband's Razor in the other, got as it were by Stealth, she excis'd all within her Reach; then putting a Clout up to the Parts, she got into her Bed: Where, after short Time, the Blood being discover'd, and she questioned about the fame, very fedately told them what she had done.

Upon this a neighbouring Surgeon was sent for, who restrain'd the Hamorrhage with proper Restringents: But the same Evening, the Flux being renewed, he call'd me to his Assistance: When ordering

dering a large Tent like a Pessus to be made up, the same was dipp'd in Oxycrate cum Alb. Ovorum, then gently express'd and rolled over some sine Bole, particularly its Extremity, and so put up; next to this, a thick Pledgit or Wad of Tow, wrung out of the same, and sprinkled thick cum Farina Fabar. with the T. Bandage to keep all close.

The Day following, the Blood seemingly stanched, a Digestive was got ready, into which made warm, a Tent like the first was dip'd, and introduced: But coming the third Day, we found more Blood discharged, several Grumes or Clots following the Extraction of this last Application, so that we were forced to have recourse to our Restringents: And thus we continued for several Days, our Patient all this while Calm, with little Fever, and as little Complaint, in regard to what might have been expected from so desperate an Operation.

When the Flux was stop'd, and the external Privity cleansed with a warm Stuph wrung out of Wine, we took a more strict Survey of the Parts, and dilating the Labia with my Fingers, in Expectation of finding a Wound on the relaxed Vagina, could perceive nothing like it, all lying sair and natural within our Sight: When entering my Finger as high up as I could reach, I plainly felt a large jag'd or unequal Wound, on the lower Part of the Uterus, whose Os internum, or whole Cervix, had been cut off: The Blood upon this Examination (tho' but in small Quantity) again following my Finger.

I then enquir'd after the Part thus strangely taken off, which they shew'd me put by in Water, and I perceiv'd the same, as I have represented it, the upper Part an Inch and Half deep, especially on

each

each Side, fomewhat narrower in the Middle, and still less on the under Side, or that lying on the Rectum, which, for the Curiosity, I desired the Surgeon to put into Spirit of Wine, and which he still keeps by him, to gratify any ingenuous Enquirer with a Sight thereof; of which Number the first Person I show'd it to, was Mr. Petty, in Fenchurch-

Street: But proceeding.

After this Discovery, the Blood also entirely restrain'd, I advised a large Tent to be made up, as at first, whose upper Extremity was dip'd in a melted Mixture ex part. iijs. vel circiter Linimenti Arcei cum quarta Ol. Tereb. passing it up against the gaping Wound of the Uterus: I also advised a warm Fomentation, which we were shy of sooner on account of the Hamorrhage, prepar'd ex Decocto Fol. Absinth. Cent. Hyper. &c. and a proportionate Quantity of the Spir. Vini Camph. to be apply'd with Stuphs, not only to the Pudendum, but reaching up to the lower Belly, which were renewed for Half an Hour, Night and Morning, before the Times of Dreffing up, whereby to comfort the internal Parts thereof, cherish their Heat, and promote Digestion of the Wound. which, at about ten Days End, began to appear laudable upon the End of the Tent, and in moderate Quantity.

After this, a Womb-Syringe was provided, and the following Decoction thrown in twice a Day, by way of Injection, to mundify the Wound: By its Situation I apprehended, less susceptible of an Impression from our Balsams, which were, howe-

ver, still continued after the Use thereof,

Re Plantaginis cum toto, Summit. Hyperic. Centaur. a mj. Hord. Gallic. 3ss. coquantur in Aq. F. q. s. pro thj. Colatura, cui per subsidentiam depurata adde Mel. Z 3 Rosar.

Rosar. 3ij. Tinct. Myrrh. 3ss. Of. mixtura cujus metrenchitæ auxilio, injiciantur Cochl. v. vel. vi. per Sinum Pudoris, prius tepesacta, bis in die.

This having been used for some Days, and the Discharge still lessening, I substituted the following, more consolidating and agglutinating.

Re Rad. de Symphito, Plantag. a 3j. Fol. Hyperic. Equiseti, Sanicula, Bugula a mss. coquantur in Aq. F. q. s. ad 3xij. Colatura sub finem infundendo Vini rubr. 3iv. & preterea Colatura suprascripta addendo Mel. Rosar. 3ij. f. pro Injectione prioris instar utenda, sed sapius in die.

By which I have great Hopes her Cure may be accomplish'd: She now gets out of Bed, takes her Nourishment and Rest, the Discharge from the Wound being inconsiderable; and the same bid-

ding fair for the Healing fuddenly.

I think this is the only Instance of the vorces route, or rather Uteri Cervicis Abscissio, I remember to have met with in our Writers of Chyrurgery: At least, I am apt to believe the first Attempt this Way, for the Cure of its Prolapsus.

Of a Cancer of the Womb.

Having here made Mention of the Cancer, I might inform you farther, that the Uterus is a Part subject to that cruel Distemper, to be known if within Reach of the Finger, by its Stony Hardness, if out, by its cutting and acute Pains, communicating by its Ligaments with the Loins, and especially the Hips, which, at these Times I have observed

observed much affected. If the same is ulcerated, there are frequent and great Hamorrhages, stinking, ill colour'd and putrid Gleets, slowing down by the Pudendum, which by Degrees exhausting the Treasure of Life, and impressing a malign Taint upon the Nervous Fluid, the miserable Woman thus daily pining, is at last freed by Death, the

End of all our worldly Sorrow.

But I shall not waste your Time in giving farther Directions in these Cases, than you will meet with in my Account of the Disease in general, at the End of my first Section, where you will find the fame fet in a true Light, and tho' I have there given you one Instance of Success, I think it is all I have to boast of; I am fure I can say safely, I never yet met with one seising upon this Part, that would admit of more than palliating, by lenient Injections, such as the Succi Plantag. Sedi, Solani, Hyosciam. or a Decoction ex Fol. Fragar. Equiset. La-Etuca, Portulaca, Viol. or the like, with a little Sal. Prunel. and Syr. de Nymphaa, or the Mel. Rof. Mucilages also of the Sem. Cydon. in Aq. Plantag. or a Solution of Sacchar. Saturn. in that of the Aq. Sperm. Ranar. a strict Milk-Diet, being pursued in the mean Time, or the Almond-Milks and Emulfions formerly observed, in our faid Section: Also Anodynes, Narcotics and Opiates, are both mixed at sometimes with the Liquors thrown up, especially two or three Ounces of the Syr. de Meconio to a Pint of the same: Or a few Grains of the crude Opium well dissolved therein, whilst the Dose of either, taken inwardly, is proportion'd to the Exigency of the Pain, and the Custom of long taking them, by which they become so familiaris'd to the Spirits, as to produce little or no Effect, unless their Quantity be enlarged; and thus I have known some of these unhappy People, begin with Half an Ounce

of Syr. de Meconio, and come by Degrees to two Ounces: When the dire Complaint increasing, and refusing to give a Truce by these petty Combatants in their Behalf, they have had recourse to the Sacred Anchor of Opium, and from twenty Drops of its Solution in the Liquid, or one Grain of the Solid Laudanum, have arrived to an Hundred of the former, and four or five Grains of the latter, in the Circuit of a Night and Day.

Of the Prolapsus Ani.

The last Disease I shall here take Notice of, (over-look'd in the former Sections) tho' not peculiar to Women, yet in some Measure related to the foregoing, I mean the Procidentia Uteri, is the Prolapsus Ani, or Falling-down, as it is named com-

monly, of the Fundament.

This Part is not only subject to Fistula's, of which in our Sixth Section you will fee an Instance or two; to Hamorrhoids, observed in our Treatise De Morbis Cutaneis, among those incident to the Verge of the Anus, CHAP. VII. to the Cancer, of which also here Sect. I. But the Intestine, or Gut it felf, I mean its lower Extremity, from a Kind of Paralifis or Resolution of its Nervous Fibres, particularly those of the Muscles appointed to support the same, called Levatores, as well as the circular Ones of the Sphinster, whose Office is to purse it up, after opening to let out the Excrements, fuffers fo great Relaxation of its rugous internal Coat, after the Manner of the Vagina, as to hang out of the Body: To which Infants especially, by reason of their soft and tender Habits, are more fubject, when a Flux of sharp Humours falling down upon these Parts, puts them upon hard and continual Straining to get rid of: Others

also after long Sickness, being weakened by Difenteries or Diarrhaa's, terminating in a Tenesmus, the acrimonious Humour now falling upon the Sphin-Eter, like a stimulating Suppository, continually irritates the Fibres, as if fomething wanted to be difcharged, whilft the Patient, in Hopes of eafing himself, fits over the Stool straining, till in great Anguish, Fainting, and in cold Sweats, being tired with his fruitless Endeavours, he gets up, perceiving nothing, unless a little Slime or Mucus, to come from him, with the End of the Gut thrufting forth from his Body, which it is not but with great Difficulty at sometimes, that he can after reduce. and, being put up again, enjoys but a short Quiet, before, the Stimulus returning, his Misery is renewed.

Mr. Wiseman has handled the Diseases of the Anus, in a Chapter by themselves, such as the Hamorrhoids, or Piles, with the several Excrescenses about the Fundament, viz. the Fici, Thymi, Conditomata, &c. together with the Fistula and Prolapsus Ani.

But having, as now remark'd, discoursed of the two former in our Treatise above-mention'd, as well as where the same partake of the Venereal Taint, in our Siphilys: Of the Fistulæ, in this among the Simuous Ulcers; it remains only, that we give you some farther Account of the Cure of this Procidentia Ani.

Which is partly Physical, and partly Chyrurgic: The First respecting the Cause, the peccant Matter to be carry'd off by lenient and gentle Cathartics, afterwards correcting or obtunding the remaining Juices, by those Remedies we call Absorbents, the Chymists Alkalious, and leisurely constipating the Mouths of the intestinal Glandules, to prevent the ouzing forth of the serous Humour, by suitable Restringents: Lastly, and without which little good can be obtain'd,

tain'd, for easing the Pain and quieting the Irritation, Anodynes or Opiates, as the Case re-

quires.

The Second, regarding the Effect, by as gentle Styptic and discutient Fomentations, to resolve the Humour fallen down on the Intestine, and strengthen the Muscular Fibres, that they may be enabled to retract themselves, and constringing their Sphin-

Her, prevent Relapfe.

To the same Purpose serves the Suffitus, made mention of in the Prohapfus Uteri: Cataplasms also. as the Cafe may call for, prepared from those Detoctions thicken'd with Farina, and sprinkled over with reftringent Powders, as the Pulv. Rofar, rub. Balauft. Cort. Granat. &c. and instead of Suppositories, which, however mild they may be, are still apt to irritate to Expulsion: Injections Glyster-wife. but in small Quantity, as the Case stands, either to appeale the Pain, sheath the Acrimony of the Humours, and heal the Excoriations; or moderately to exiccate and corrugate the lax Fibres: Of the former Sort are the Ol. Lini, Hyper. Papau. cum Laste Vaccin, ac tantillo Theriac, vel Diascord. also the Mucilages ex Sem. Malva, Plantag. Papar. Cydon. in Aq. Hord. cum Mel. Rosar. Of the latter, a firing Tincture of Rose-Leaves, cum Syr. Eurundem Siccorum; a Decoction also of the agglutinating and restringent Simples, such as the Rad. Tormentil. Biflort. Fol. Alchymil. Plantag. Equifet. Auricul. Muris Burf. Paftor. &c. cum eodem Melle Rof.

In the Use of which latter more especially, the following Cautions may be necessary, viz. That you by no Means throw up these Styptic Liquors where there is great Pain, and the Gut excoriated, or its Mucus shaved off by the sharp Humour, before the same is appealed, and the Ulceration cicatrised; for this would be as preposterous as the going

about to deterge any other Uker, before its Digeftion, or Cicatrifing before the same was mundify d; at these Times the lenifying, demulcing Mucilages

and Oils being most fitting.

Farther, that the Quantity of your Chifter, or Inje-Glion, exceed not at these Times a Quarter of a Pint, which is usually sufficient: For otherwise, by their Bulk impressing the Intestines, they will presently be thrown out again, contrary to the Intention, which is to lodge for some Hours, and, like a Fotus, to comfort, asswage the Pain, and take off the Stimulus.

To return now to the Physical Regimen, which regards the Cause, in purging off the offending Matter: The Cathartics, best fitted for this Purpose, are the Rad. Rhei, cum, vel sine torresactione, prout Fluxus magis vel minus postulat. The former may be exhibited either infus'd or in Substance; the latter in Substance only, made up into a Bolus with some Conserve, as that of Roses, or the Consect. of Fracastorius, prepar'd without Honey, Is. to Is. Fruct. Tamarindi, Mirobal. Citrin. a Form of which I shall here insert, viz.

R. Rad. Rhei tenuiter incis. 3j. Tamarind. 3ij. Cort.

Mirobal. Citrin. 3fs. Sal. Tart. 3fs.

Infunde coram igne paulisper, dein stent simul per vo-Etem in Aq. Cinnamom. Hord. Ziv. & Colatura clara adde Syr. Ros. sol. Zj. pro potione lenitiva, sumenda mane cum levi custodia.

This is to be repeated, as Occasion requires

once in two or three Days.

The Absorbents are the Corn. Cerv. calcinat. of which the common Aposem, from its Colour call'd the White Drink, is prepar'd with a Stick of Cinnamon and a Crust of Bread, edulcorated with double

double refin'd Sugar, for their constant Liquor; the Creta alba and Coral rub. to which are added others, both absorbent and restringent, such as Bolus verus, Terra Lemnia, Sigillata, Japonica, as among the Compounds, the Confect. Fracast. before mention'd, and that de Hyacintho, Milk and Water, Rice-Water, Claret-Wine, and Steel'd-Water, are also allow'd between whiles.

Anodynes and Opiates, as the Pain and Frequency of going to Stool shall indicate, are here also to

be prescribed.

A Process for all which, as the Symptoms vary, for the Benefit of young Practitioners, in the Absence of a Physician, or where his Counsel cannot be had, you may collect from what follows.

Having given the lenient Potion above directed, or the Bolus ex Rheo cum Diascordio, on the Days intermediate, the Flux yet continuing, the following Absorbent Electuary and Aposem may be directed.

Re Cons. Rosar. 3ss. Diascord. s. m. 3ij. Cretæ albæ puris. Coral. rub. pp. ā 3j. Ter. Japon. 3ss. Syr. de Mecon. q. s. m. f. Electuarium de quo capiat quant. n. m. mane & vesperi, superbibendo haustulum califactum vel saltem tepefactum, decocti sequentis cujus bibat ad silim loco alterius potulenti sitim vel ad libitum.

R. C. C. C. Zij. Nuc. Mosc. contus. 3ss. coquantur in Aq. F. q. s. pro Colaturæ ttojss. addendo sub finem Coccinel. contus. 3j. Colaturæ per cribrum trajectæ adde Aq. Cinnamom. Ten. Zij. Sacchar. albissimi q. s. m. f. Aposema.

In case of Pain, as is frequent in the Dysenteric Prolapsus with Gripes and bloody Stools, half a Grain of Laudanum, or a Grain must be added to each Morsel of the Elect. or the following Draught towards Bed-time, for promoting Rest, the Dose of which, as we formerly observed, when discoursing of these Remedies, must be proportioned to the Sense of Pain, and Frequency of its Returns; having Regard however to the Strength of the Pulse, the Age, Sex and Constitution.

Re Aq. Flor. Paralys. 3j. Epid. Syr. Cydon. a 3ij. Laud. liquid. Cydon. gutt. xx. m.f. Haustus.

Forms of *Injections*, Clyster-wise, may be taken from these which follow: As, first, if there be great Pain with Ulceration of the *Intestine* attending, or where its *Mucus* is shaved as it were away, by the sharp Humours falling down.

Re Caput Ovillum cum lanugine confractum, & exempto cerebro, Rad. Symphit. 3ij. Sem. Malvæ, Plantag. & Papav. alb. a 3ij. coquantur in p.æq. Lact. Vaccin. & Aq. F. to iv. ad confumptionem dimidii & coletur.

Re Hujus Colatura Ziv. Mel. Rosar. Zj. m. f. instar Enematis, ope Syphonis tubulo proprio adaptato, vel Vesica armata in Anum injiciend. renovand. bis in Die: Vel.

R. Mucilaginis tenuioris Sem. Cydon. in Aq. Hord. Extr. 3iv. Mel. Rosar. 3j. eodem modo utendum.

When the Pain is somewhat asswaged, and the Ulceration disposed for Healing,

Ry Plan-

R. Plantag. cum toto Equiset. a Mj. Fol. Hyperic. Gynoglof. Pilofel. scabiof. Bugul. fanicul. a Ms. coquantur in Jusculi tenuis ex Capit. Ovil. fact. q. s. ad this. Colatura cujus injice eandem Quant, bis in Die, cum Syr. de Rofis ficcis 3i.

If there be meer Laxity without Pain or Soreness, you may throw up the like Quantity of a ftrong Infusion of Oak-Bark, Pomegranate-Rind, Balaustines, or the Tineture of Rose-Leaves, with its Mel or Syrup.

To take off the Tenesmus usually attending at these Times; and which indeed by the hard straining occasioned thereby, more than any thing encreases this Disease.

R. Decost. albi 3iv. Conf. Fracast. 3ss. Terebinth. cum Ovi Vitello solut 3ij. m. pro Enemate : Vel.

R. Vini Canariens 3iv. Theriac. And. 3ss. solve cum Vitello Ovi & f. Enema.

And Note, That all Injections are to be thrown up only Blood warm, left by their greater Heat, Pain with Inflammation be flirr'd up; or being quite

Cold, Gangrene and Mortification.

In the mean time, Let the Surgeon take Care of the prolapsed Intestine, endeavouring to discuss the impacted Humour with hot Stuphs wrung out of a Decoction of the Folia Malva, Verbasci, Flor. Chamomel. Melilot. Summit. Hyperic. to which, as we have already taken Notice, may be added some gentle Styptics, as the Fol. Refar. And after Reduction, the Emollients must be wholly omitted, and the Restringent Decoctions of the Cort. Querc. Granat. &c.

apply'd close up to the Amis with hot Flannels, and there fecur'd by the common Bandage, in order to

purse up the Sphineter.

But if the Intestine be so relax'd, and withal tumefv'd, as that you can by no Means of lightly pressing from one Side to the other, with your Fingers upon the warm Flannel, reduce it to its Place within the Body; having well fomented the same with the discutient and emollient Fomentation to relax the Induration and resolve the Tumour, you may thicken a Part of the Decoction either with the Crumbs of white Bread, or the Farina Fabar. and apply to the prolapfed Gut, first sprinkling over it the Pulv. Boli vel Rosar. ficcat. till the Folds thereof foftening and giving more Way, you are enabled to accomplish your End. After which it will behove the Patient to be very cautious at his Times of Needing, to moderate his Straining or Preffing downwards, with his Fingers round about the Verge endeavouring to keep up the Anus, whilft his Stool is discharging, at least with a hot Flannel wrung out of Red Wine, to be ready at Hand at fuch Times, preffing gently and wriggling from Side to Side, till finding it paffing, by holding his Breath and purfing up of his Body. he will both facilitate the Return, and fecure the Part from Relapsing, clapping a Stuph strongly express'd from the hot Wine, or some other Styptic Liquor, close up to the Fundament, and keeping it there for fome Time.

Mr. Wiseman, I think, proposes a perforated Plate of Tin, of a fit Size, held tight to the Anus. at the Time of going to Stool, fo that there may be a Conveyance for the same, without suffering the Intestine to come down therewith; as also a Couple of small square Pieces of Stick, to be kept there, with the Fingers on each Side at the same

Time,

Time, and for the like Purpose: But I never found that either of these Experiments have answer'd, the Gut still. from the Irritation or Force of the Tenefm overcoming the Pressure, and slipping down between: So that one great Matter to be observ'd in these Cases, is doubtless, to bring the Body to fuch a Mediocrity, with regard to his Stools, as that on the one hand he be not too coffive; or ty'd up, by which straining over the same, the Sphintler would force down; or on the other, being over lax, the Fibres being weaken'd through their Want of due Tensity, will be after less capable of corrugating or shutting up thereof.

HIST. 118.

A Girl about 14 Years of Age, had the most formidable Prolapsus, of this Kind, I ever met with: It had been down for some Weeks past, coming after a Worm-Fever, attended with a Loofeness. The internal Tunick lay out in hard Folds, like the Prapuce of a strangled Glans under a Periphimosis, tumify'd, inflam'd, and strutting out to the Compass over a clenched Fift, discharging a bloody Gleet, with mucous Dejections issuing down between, and tending to Gangrene. Before I was call'd, there had been a Pretender to Art to view the same, who had declar'd it Cancerous and incurable; which terrifying the Parents, they confulted me, who gave my Opinion, that the Difeafe was no other than a meer Prolapsus, or Falling down of the Fundament; however, through Neglect, now tending to mortify, and the Child's Life in Danger. Desiring my Assistance, I prefently scarify'd lightly the discolour'd Parts, applying a Flannel wrung out of Claret, made almost boiling hot; after three or four of which I fent for some Theriac. Lond. to the next Apothecary's. and laid on the same as hot all over the Part, bringing up the T, and fastening it before to the Belt; with a Needle and Thread drawing up the opposite Part of the Strap like a Bag, for receiving the pouting Gut with the Dressings, and securing of the same, providing against the Evening, the following Decoction to be made use of as a Fotus.

R. Summit. Hyperic. Centaur. Min. Malvæ ā Mj. Flor. Chamomel. Melilot. Sambuc. ā Ms. coquantur in Aq. F. q. s. ad Colaturæ tbij. addendo inter amovendum ab igne Vini rubri ths.

About a third of the Colature was thicken'd with Bean-Flower, and 'apply'd (after the Part was well fomented) as a Pultis, having used this for fome Days, the Tumour discuss'd, and the Sloughs began to loosen, which before the Cataplasm was apply'd, I flightly dabb'd with an armed Probe dipp'd in a hot Mixture of Mel. Ros. & Tinct. Myrrh. 3j. of Mel to 3ij. of the Tinct. and about 3j. of the Mel. Unguent. Ægypt. Yet notwithstanding so great Hardness still possess'd the Folds of the prolapsed Intestine, that it was impossible to pass it through the Stricture above; upon which I try'd to foften the same by Bathing as before with warm Flannels, express'd from the Decoct. ex Rad. Alth. Fol. Verbasc. Branc. Urfina Mercurial. together with Discutients, viz. the Flor. Chamomel. Melilot. Sambuc. with a fmall Quantity of the Fol. Rosar. rub. to give some light Restringency thereunto, and ftrengthen the Parts.

These were boil'd in Milk and Water, some Part as before being thicken'd with Farina: And thus after the third Day taking off the Pultis, and seeling the Parts softer, with a Stuph wrung hot as she could suffer it from the Fotus, I began to press gently for Fear of hurting the Part, and wriggling it from Side to Side, passing up a little Portion

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at a Time, I found it giving way, so that maintaining the Ground I had got, I perswaded the Patient to draw up or contract the Sphincter as well as the could, which however by Continuance of Time thus thrust out of its Place, was much weaken'd in its Tone, yet at length flipp'd up at once. Upon which I took a fost Piece of new Flannel, and diffolving a Bit of Roach Alum in a little Red Wine, dipp'd the same several times doubled in the Form of a Compress, and pressing out the Wine, directed it close up to the Fundament, with a dry one over, and the Strap of the T coming up before to secure it, giving Orders for its being renewed two or three times in twenty four Hours, and to give Notice to me (if it happen'd feafonably) when the went to Stool, that I might help her upon Occasion.

The next Day I provided the following Fotus, for the farther strengthening of the Sphinster, and securing its Relapsus, to be used as the former, only shifting them as they grew cold, for half an Hour, Night and Morning, and after each Time

of her going to the Pot or Stool.

Re Cort. Querc. 3j. Granat. 3ij. Gal. immat 3j. Flor. Bolaust. p. i. Alum. 3s. Infunde super Cineres calidos per xii. horas, in Aq. Chalyb. & Vini rubri austeri ap. a. q. s. pro Colatura Hoss. qua reservetur Usui instar Fotus.

In the mean time, as the Sphintler contracted, to correct the bilious and acrid Humours, still apt to flow down with a Mucus, I order'd her every Night to take the following Bolus, with a Draught of the Hartshorn Drink; to which, and the Chicken or Mutton Broths boil'd with Rice and a Crust of Bread, she was kept through the whole Course.

R. Conf.

Ri Conf. Fracast. s. m. 3ss. Pulv. Rhei torrefact. Is. Cinnamom. acut. Pulv. gr. v. Syr de Mecon. q. s.

And after every loose Stool she took two or three Spoonfuls of this Julap with Absorbents, shaking up the Glass.

R. Aq. Ceras. migr. Cinnamom. Hord. a 3iv. Sacchar. albi Christal. 3ij. Cretæ alb. puris. Coral. rub. pp. a 3j. m.

For the like Reason, as the Diarrhaa had been of long standing, to prevent any Mischief by the sudden Check thereof, the following lenient Potion was given once in four or five Days, for as many times, which manifestly strengthens the intestinal Fibres, as at the same Instant it gently empties the peccant Matter, and is in all these Kinds of Fluxes, whether Lienteric, Dysenteric, or the common Loofness very profitable.

Re Rad Rhei temuiter incif. 3j. Tamarihd 3ij. Cort. Mirobal. Citrin. Cinnamom. acut. confract. a 3ss. Sem. Plantag. p. j. Infunde calide in Aq. Lact Alex. 3iij. Colatura clara adde Aq. Epid. 3ij. Syr. Ros. solut. 3j. & f. Potio.

By this Regimen she gradually recover'd, tho' I was several times sent for after her Needings, to pur up the Intestine, which was now accomplish'd with little Trouble, and at last would go up again of it self.

She thought the received great Comfort also by fitting over the following Suffitus every Night for a Quarter of an Hour, the Powder being sprink-led on a Chasing-Dish of Coals put into the Case of a Close-Stool.

A a 2

Re Ma-

R. Mastich. Thuris a 3js. Cort. Granat. 3j. Nuc. Moschat. 3/s. m. f. Pulvis in tribus Chartulis.

To take off the Tenesmus or Provocation, so soon as the Gut was reduced, they threw up every Night half a Dozen Spoonfuls of Canary, with a quarter of an Ounce of Conf. Fracast. and the Yolk of an Egg. After this she enter'd upon a Milk Diet with absorbent Powders, and was freed from her He-Etic Fever, by which her Life for some Months past, seemed to be in very apparent Danger.

When this Prolapfus befalls young Infants, the Case is yet more troublesome, for that instead of helping themselves by moderating the straining, they force out the Part still-more violently through the Irritation, and thereby fometimes oppose all Endeavours for the Reduction, till the same is appeafed by proper Fomentations, apply'd as above directed, or being tired out with the unnatural Conatus, are forced to give over, and the Surgeon taking his Opportunity fucceeds better in the Attempt, by the Method above directed, preventing a Relapse, unless, as at sometimes, Nature being quite spent through the Flux attending, the prolapsed Gut is affected with a Gangrene, and the Patient carry'd off thereby.

And thus, Gentlemen, I shall put an End to these Chirurgical Discourses, in which if I have been less accurate in the laying down my Definitions, Diagnostic or Prognostic Signs, as well as Method of Cure, than some of my Predecessors; yet, if in the whole I have given fuch Hints as may ferve to constitute a general Idea of our Art, it is all that I propos'd to my felf, or indeed promis'd you at my

first Setting out,

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TABULA HISTORICA:

OR,

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TABULA



Giving an Account of some hard Words contained in the foregoing Sections, with their Derivations both from the Greek and Latin; for the Benefit of such who are less conversant or acquainted with those Languages, here explained, and Alphabetically digested.

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or, as called by Anatomifts, the lower Belly, to diffinguish it from that above, which they name the middle Venter:

It is so term'd according to some, ex abdo, fignifying to hide, for that the Intestines and other Bowels, lie as it were hid or conceal'd therein: Its Forepart is divided into the upper Region, named Epigastrium, ex cmi, super, & yashe, ventriculus, as lying over the Stomach; the Middle, Umbilicalis, as comprehending the Navel; and the Lower, Hypogastrica, ex wo, sub, & yasho, as before; the Sides called Hypochondria, in the superiour Parts, ex 500, sub, & xorde , cartilago; the inferiour, Ilia, the Flanks, near adjoining to the Bones of the fame Name.

Aberration, ex aberro, to wander out of the Way; here meant of Nature's fometimes deviating from her usual Proceedings.

Ablactation, ex ab & lacte, the taking a Child from Sucking, or, as it is termed generally, Weaning it from the Breaft.

Abscessus, ex abscedo, to depart; a Gathering of Matter in a Part; so named because hereby those which were before close joined, are forced upon a Separation; the lower as it were retiring from the upper, to make room for the said Matter. See Apostema.

Abforbent, Medicines so denominated from their Power of imbibing the sharp Particles, and tempering the sour Juices of the Blood, derived, ex absorbeo, to swallow or drink up. See Alkaline.

Acetabulum, the Cavity or Hole in the Coxendix or Hip-Bone, recei-

ving the Head of the Thigh by that Articulation (and indeed the principal Instance thereof) called Enarthrofis; which see also in its Place: It is called also of some the Cup, and seems to derive its Name from its Likeness to an antient Sawcer, in which they brought Vinegar to the Table, thence named Acetabula, ex Aceto in iis selected in contento; as our Saltsellers, Salina, ex Sale illa implendo. See Pyxis.

Acromium, ex dup , summus, & bum, bumerus, the upper Part or

Top of the Shoulder.

Acute, a Difease that terminates suddenly, opposite to Chronic, borrow'd from acuo, to quicken or sharpen.

Adnascent, sticking or adhering close, ex adnascer, to grow to, or

close upon.

Aduftion, scorched as it were by violent Heat, or burnt, ex aduro, to burn or parch; figuratively here spoken of the Rile or Choler.

Egyptiacum, an Ointment so called, prepared of Verdigreese, Honey and Vinegar, having its Name from Egypt, if we may credit the first Compilers

of our Dispensatory.

Ægylops, a Disease of the Eye, or rather its inward Corner; in Greek αὐγίλωψ, ex ἀτξ, caper, & ἀψ, oculus, or Goats-Eye; from its Likeness, or, as others, for that this Creature is prone to this Disease. Of which

fee more in Anchylops.

Ather, aldip, wo to ale dei, a femper currendo, quod, cursibus rapidis continuo rotatur; vel ab aldio, ardeo, splendeo, to appear bright and resplendent; the Sky or Firmament: But meant with us of the Cartesian Wonder-working Element, which enters and fills up the Pores of all Bodies whatever, and which he calls his Globuli atherei; seu primi generis Elementa.

Etiology, ex airia, causa, & xoy G; ratio; the Reason of a thing, or why it is so denominated.

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Aggested, ex aggero, to pile up into one; any thing heaped up; heremeant particularly of certain Hu-

mours in the Parts.

Agglutinative, sticking or joining close, ex agglutino, to cement or glue together; imply'd of Wounds, whose Lips, by the Assistance of such Medicines, are so united.

Albuginea, the inner proper Coat of the Testis or Stone; so termed from its white and transparent Co-

our.

Alexipharmic, ab ἀλέξω, arceo, & φάρμακον, venenum; a Counter-Poifon of any Kind, relating chiefly to Remedies in malignant Fevers.

Alexiterium, ab αλέξω & τηρέω, conservo, a Freservative from Conta-

gion.

Alkali, derived originally from the Agyptian Kali; with us, but especially the Chymists, who make a filthy Clutter about the same, it stands for the fixed Salts of Plants drawn therefrom, first burnt to Ashes, then made into a Lixivium; but is now generally understood of all other Remedies, fitted by their Texture, to break, blunt, or sheath the Spicula or Points of Acids.

Alimentary, any thing affording Nourishment to the Parts of our Bodies; ab Alimentum, Food or Repast.

Alveolus, quasi alvus parvus, a little Trough, or other Hollow: Among Anatomists are imply'd hereby those by Nature formed in the Jaw-bones, to receive the Fangs of the Teeth, called otherwise their Sockets.

Amaurosis, ab a naneów, obscuro; a Discase of the Eye, or rather the Optic Nerve, called also Gutta serena; in which the Patient is quite dark, through some Matter in the Nerve, which intercepts the Rays

paffing

passing to the Sensory, at the same Time nothing being discoverable outwardly, unless that upon strict Enquiry, when the Pupilla is found more dilated than the other, the Uvea, at least its Ligament, called Ciliare, having lost its Spring or Power of Contraction.

Ambustion, ex amburo, vel ex ad & uro, aliis am & uro, & b interposito, fit amburo, a Burning or Scald-

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Analysis, ab avanue, resolve, the reducing by Chymistry any Matter into its primary Constituent, or compounding Parts.

Analogy, ab avadoviζομαι, comparo, a likening in general of one

thing with another.

Anafarca, ex ava, per, & sape, caro, a watery Swelling, from a ferous Humour shed between the Skin and Flesh.

Anatomy, ab ava, per, & τεμνω, feco, vel ab ανατεμνω, disseco, an artificial Dissection of dead Bodies, for the Benefit of the living, discovering thereby the Nature, Office, and Use of each Part, with the Diseases discover'd upon them, not otherwise

rightly to be found out.

Anchylops, ab & y nún, hamus, stridura, the same with Ægylops, according to some; tho others, as Blancard, distinguisheth them thus, viz. that before the Swelling breaks, it is called Anchylops; and after, Ægylops; when, if the Bone of the Nose adjoining be concern'd, it makes the Fishula lachrymalis.

Anchylosis, ab aynun, vel aynu-Xomum, i.e. Contractione Articulorum laboro; fignifying such Contraction and Stiffness of the Joints, as if there were no Articulation, at least intend-

ed for Motion of the same.

Ancyroides, a Process of the Scapula, so named ab ayuvea, anchora, poyx , rostrum, & ESO, forma. Aneurisma, ab avdevve, dilate, implying either a Rupture in the Coats of an Artery, whence the Blood is thrown out into the Inter-flices of the Muscles, or an Enlarge-

ment thereof by Dilatation.

Angina, ab angendi, seu constringendis faucibus, as some; or, as others, ab dryew, strangulare; the Quinfy, a Disease of the Throat, or more properly an Inflammation of the Muscles of the Windpipe, particularly those called Aretanoides, and Thyreoaretanoides; whose Office it is to straiten the Pipe, and by which thus distemper'd, the Air is at sometimes to entirely precluded, that unless Incifion be made on the Outfide, betwixt the Rings, to give a Passage thereunto, the Patient is presently strangled, as if a Ligature had been tied round his Neck.

Angeiotomist, ab αλ seov, vas, & τέμνω, seco; a Person skill d in the Course of the Blood-Vessels, or who

can readily diffect them.

Anhelous, ex anhelo, to breathe with Difficulty; of which there are divers Kinds, as the Ashma, Dyspnæa, Orthopnæa: Which you will find in their Places.

Anhelitus, Idem quod Anhelous.

Anima Mundi, the Soul of the World; another universal Ubiquitarian Principle, suppos'd by Plato to do the same Feats as Cartes's Æther, pervading and influencing all Parts and Places.

Animalcule, a Dimin. ab Animal, or a living Creature fo exceedingly minute or small, as to escare the naked Sight, and discoverable only by the Help of Glasses: These are by some now-a-Days, deemed not only the Original of our selves, but our Diseases also.

Anodyne, ex a Particula Privativa, & of sva, doleo, to be void of Pain: Hence all fuch Remedies as are

Bb2

intended to give Ease, or mitigate the same, are so denominated.

Antagonist, ex avil, contra, & aywilw, appone, one acting in Opposition to another; in this Place referring to the Muscles, as where one
lifts up the Part, and another depressection or pulls down the same.

Anthrax, Gr. 2vbeaz, i. e. carbo, a burning Coal; a Plague-Swelling, or Sore of that Name, from its burning Nature fo call'd: The fame with Carbunculus, which fee.

Antidote, & Nisol , ex avi contra, & Sisou, do, any Sort of Counter-Poison; the same with Alexipharmic.

Apparatus, from appareo, to appear, or be ready at hand; a Provifion of all Things necessary, or which may be wanting in the performing some Operation.

Appendix, ex appendo, to hang by, or to, any Thing adjoining to another; among the Surgeons the Elongation, or bearing at the End of a Bone: See Apophysis, and Epiphysis.

Appendage, the fame with Appen-

Aphonia, ex a, part. priv. & own, vox; one who has lost his Voice, or is become Speechless.

Aphorism, ab acoel w, determino, a principal or general Rule of some Art, taken as it were for granted, as founded upon Authority, such as those of Hiptocrates.

Aponeurosis, ex & no, de, & vevegy, nervus, any Nervous Expansion.

Apophysis, ex δπορύω, produco; the bearing out at the Extremity of a Bone, still continuous with the same: See Epiphysis.

Apoplexia, ab Snonhirla, percutio; a fudden Deprivation, as well of Sense as Motion, Respiration sometimes however remaining.

Apostema, ex doisnus, sejungo; the same with Abscessus.

Apothegm, a Maxim, Axiom, of Proposition; a standing Rule.

Aq. Chal. Aqua Chalybiata, steeled Water; or, in which hot Iron has been often quenched.

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Aq. Fabr. Aqua Fabrorum, the fame; called otherwise the Smith's Forge Water.

Arcaus, the Author of the Unguent. ex Gum. Elemi, called otherwife Linimentum Arcai, who wrote a Treatife of Wounds, in which he wonderfully, [and deservedly too] extols the same.

Archaus, ab dexn, principium, a Sort of Primum Mobile, Semi-Deity; or Vice-God, set up by Helmont, to super-intend the Animal Fabric, or Oeconomy thereof; and to direct every thing in the best Manner for Conservation thereof; of kin to Plato's Anima Mundi.

Aretanoides, ab a gow, haurio, a-voiya, aperio, & & & & & , forma; the Name both of a Cartilage as well as Muscle of the Aspera Arteria, or Wind-Pipe, serving upon Occasion to constringe the same, and modulate the Voice.

Arteriotomy, ex delneia, arteria, & τέμνω, seco; the artificial Opening of that Vessel, like what is practised in Phlebotomy or Venasection.

Arthritica, ab appocy, articulus, fic dict. quod ad Tà deplea, in articulos infestet morbus, Remedies for the Gout.

Arthrodia, ab appen, articulus, &c Senouau, recipio; one of the Species of Articulation, or joining of the Bones under the Diarthrofis, or that for manifest Motion; which is, when a small flattish Head is received into a proportionate Cup or Cavity, as the Humerus, or Shoulder-Bone, with the Scapula, or Shoulder-Blade.

Assation, roasted, ab asso, to roast at the Fire; here used of the bilious Juice metaphorically, as in Adustion.

Ascites,

Afcites, ab agnòs, uter, a Dropfy of the Belly; so called for its being hereby distended like unto a great Bottle.

Assimulate, ex ad, & similis, to be made like unto, or of the same Substance, or changed thereinto; as the Particles of the Chylous Juice into Blood, and those of the Nutritious into the Substance of those Parts, for whose Nourishment and Growth they are destin'd and appropriate.

Ashma, Gr. a & µa, ab aw, spiro, Shortness of Breath: See Anhelous.

Astragalus, as edyand, id. qd. talus, the first Bone of the Foot; called in Men the Ankle-Bone, in Brutes the Pastern; and so named for its being used in antient Sports, or something of that Shape called Cockal, in like manner with our Dice, going by the same Name.

Ataxy, ex α, part. priv. & τάσω, ordino, some particular Irregularity or

Disorder.

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Atheroma, ab addea, genus pultis, fic dict. one of the encysted Tumours, termed so from its Pultis-like Contents: See Steatoma, and Meliceris.

Atmosphere, the whole Region of

the Air round about us.

Athletic, ab a take, certo, to contend in Wrestling; implying the same with a robust or strong Constitution; one sit for that Exercise.

Atlas, the first Vertebra of the Neck, ab atade, sustines, to support or uphold, the Head being hereon supported.

Atrabilis, or a Degeneracy of the Bile into what the Antients called

Black-Choler.

Atrophy, ex a, priv. & Tesow, nutrio, the Falling away of the Flesh, as in a Consumption, through an Ataxy, or other Defect supposed in the Nerves.

Autopsy, ex euros, ipse, & ours,

visus, an Eye-witness, or the Evidence of Sight.

B.

Basilicon, ex βασιλάω, rego, an Ointment bearing that Epither, from its supposed Royal or Kingly Vertues.

Bilisatra: See Atrabilis.

Bregma, id. qd. Sinciput, the fore Part of the Head, à βρέχω, rigo, humetto, the fame being kept moift, or bedew'd by the Brain underneath: There are two of them, a Right and Left.

Bronchocele, a Swelling on the Wind-Pipe, or Bronchus; to denominated, à βείγχ Θ, bronchus, & κή-

An, ramix.

Bronchotomy, à Bebyx G, & Téuvw, feco, a Division made between, the Rings of the Wind-Pipe, in the Operation so called, for the Angina, or Quinfy.

Bubo, a Swelling in the Glands of the Groin, taking its Name ex Be-

Bav, inguen.

Buphthalmus, a diffemper'd Eye, ex' βε, bos, & οφθαλμός, oculus, from its vast Largeness, called Qx-Eye-

C

Achexia, ex nande, malus, & Egis, habitus, an ill Habit of Body.

Cacochymia, ex nands, malus, pravus, & xumbs, success, the same arising from some depraved Juices in the Blood.

Cacoethic, an Ulcer so named, ex nand, malum, & nos, or of

a stubborn Disposition.

Camarosis, à naudea, testudo, a Fracture of the Skull, like an Arch of a Vault, fortassis a figura testudinis antiquorum; or from a Buckler held over,

over the Head, to defend that Part from the Arrows of the Enemy.

Cancer, the most dreadful of all Diseases, from the knotty and livid Veins, like the Feet of a Crab surrounding its hard Body, so called; or, as others, for that this Creature being of such like Complexion, and holding saft what it taketh within its Claws, so likewise this Tumour, of the same Aspect, bindeth in like manner the Parts it possesses.

Capfula, a Dim. from capfa, fignifying a little Bag or Case; but in our Sense, one that is made up of the broken Membranes, formed by Nature, to enclose or lodge some extravased Juice, or other Matter contained in those Tumours we call incysted, the same with Cystis.

Carbunculus, ex carbo, the fame with Anthrax, derived by fome from a precious Stone of the fame Name, of like Colour, viz. that of a Fire-

Carcinoma, ex rapriv , cancer, & reuw, depasco, the same with Cancer; unless that some will have the occultor hidden one goby this Name, others, that which is ulcerate.

Cardiaca, a napolia, cor, any Remedy called Cordial, or which is intended to refresh the Spirits.

Cardialgia, ex rapsia, & dayiw, doleo, Pain at the Stomach, or by Confent therewith from the Nerves, called the Pain at the Heart; the same with Cardiogmos, à rapsia, & osi-ve, doleo.

Cariosity, à caries, signifying Rottenness in a Bone, like that of Wood eaten into by a small Worm: See Teredo.

Garminative, Medicines to expel or difcufs Flatulencies, or Wind, either in the Stomach or Intestines.

Carnify'd, (see Incarnation) turned into Flesh, ex caro, & fo,

Catagmatica, a nalayw, deduco,

Remedies proper to cement the broken Extremities of a sone, or to promote a Callus.

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Catamenia, Gr. natapluia, ex nalà, infra, & plui, mensis, the menstrual Purgation of Women.

Cataplasma, à κα απλασω, illino, to spread like a Plaister, a Pultis-like Form of Medicine.

Cataracta, à na accoron, confundo, a Difease of the Eye, stiled a Cataract, in which a Film, or Skin growing before the Pupilla, like a Curtain drawn against a Hole letting the Light into a Room, hinders the Passage of the same, till it is depressed by the Needle, as in Couching.

Cathartic, à καθαίρω, purgo, mundo, a purging Medicine.

Catheratica, ex nadaueta, dejicio, to throw down; Remedies fitted to keep under and subdue a Fungous, spongy, or, as it is call'd by the common People, proud Flesh.

Catheter, à nælinus, immitto, an Instrument of that Name, used to be passed into the Bladder for exploring the Stone, and to draw out the Water in an Ischury, or Stoppage thereof.

Caustica, à neiw, uro, to burn; from their fiery and consuming Property, being the strongest of the three: See Catheratic, and Septic.

Cephalic, ex necest, caput, Remedies for the Head and Brain.

Cerebellum, quafi cerebrum parvum, that Part of the Brain lying as an Appendage to the reft, on the Backfide of the Skull, called Occiput.

Chalybiat, any Remedy prepar'd with Steel.

Chlorosis, à x xwell w, viridis sum, the Disease of Virgins, called the Green-Sickness.

Cholagogue, à Xoli, bilis, & ayw, duco, a Medicine to purge Choler.

Chronic, à xegy , tempus, a Dif-

order of long standing, opposite to acute.

Chrystaline, a Tumour on the Prapace, white, shining and transparent, like unto Chrystal; whence the

Chyrurgery, ex xep, manus, & spyon, opus, in general any manual Operation; but with us particularly those relating to that Art, or which are practised by the Surgeon's Hand.

Cicatrix, à cicatrico, to skin over, or heal up a Sore, the Scar left after fuch Healing.

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Cineritious, the outer Part of the Brain; called also the cortical, from its Colour like Ashes, in Latine cineres.

Circocele, ex nspode, varix, & nhλn, a varicous Swelling of the Spermatic Veffels: See Varix, & Varicocele.

Circumgyration, a turning the Limb round about in its Socket, or Cavity, ex circum, ac gyro.

Circumrotation, the fame Action, ex circumroto, to turn round about as

a Wheel.

Coarctate, à coarcto, to press close or straiten.

Clavicula, à clavis, a little Key, the Collar-Bone, from its Likeness in old Times thereunto.

Clyster, à χλύζω, abluo, from its Property of washing as it were, the Inside of the Guts, where, by way of Injection, it is thrown up.

Colliquation, a diffolving or wasting of the Parts, ex collique, to melt

away.

Collyrium, ex χωλύω, inhibeo, & ρᾶς, fluxio; a Sort of Wash for the Eye, so called from its Power of diverting the Rheum thence; vel ex colluo, to wash, because thereby these Parts are cleaned.

Coma, nõua, fomnus profundus, 2 Disease attended with profound Sleep; but of which there are two Sorts, distinguish'd by the Names of Somnolentum, ac Vigil. See Sopor.

Combustion, ex con, & uro: The

fame with Ambustion.

Comminution, ex comminuor, to break or shiver to Pieces; meant here of the Bones so splinter'd by a Fracture.

Compages, ex compingo, to join together; a Frame of any Sort artificially put together; but with us the Animal Structure, in Whole or Part.

Concussion, ex concusio, to shake; a Jolt or Shock of the Brain, by Blows

or Falls from on high.

Condiment, a condio, to feafon, pickle, or powder, a Composition to preserve dead Flesh from Putrefaction. See Embammata.

Condylus, the flattish Process or Head of the lower Jaw, entering the Sinus of the Os Petrosum, from its Likeness to the Knuckle or Finger, bent (called by the same Name) so denominated.

Congeries, à congero, to gather in-

to a Heap or Bundle.

Congestion, from the same; but with us importing a Swelling gradually rising, and taking some Time before it comes to ripen, in Contradistinction to that by Fluxion, and which quickly terminates.

Conglobate, ex conglobo, to gatherfingly into a round Ball; a Gland of that Name and Figure, to difference

it from the following.

Conglomerate, ex conglomero, to wind up in a Cluster; several small Glands invelop'd in one common Capfula or Cover, lying close adjoining to each other.

Contagion, à contingendo, quia quem tetigerit polluit: The fame with In-

fection.

Contaminate, ex contamino, to pol-

lute or defile.

Contrafissura, a Crack or Fissure in the Skull, in a Part opposite to that where

where the Stroke or Blow was given. See Resonitus.

Contusion, à contundo, to bruise.

Convulsion, à convello, to pull or hawl together. See Spasmodic.

Coracoides, a Process of the Scapula, so term'd ex xogaž, corvus, & ed &, forma, from its Likeness to a Crow's Beak.

Cordialia. See Cardiaca.

Cortical, the Outside of the Brain, the same with Cineritious; called otherwise its Bark or Cortex.

Crasis, à need yvums, misceo; the same with mixtura; the Temper of the Blood peculiar to every Constitution.

Cremaster, à neeman, suspendo, a Pair of Muscles so named from their suspending the Testicles and Spermatick Vessels in the Scrotum.

Cretaceous, of a Chalk-like Subflance, from creta, fignifying Chalk, fuch as is found in the Internodes of fome gouty Persons.

Crifis, à neive, judico, the Termination of a Disease either by Death or Recovery.

Crotaphites, ex κείταο, tempus, fi non à κεθέω, pulso; the same with Temporalis, or the Temporal Muscle.

Cruor, Blood extravasate and congealed, à upi G, frigus.

Cutaneous, ex cutis, belonging to the Skin, or Skin-deep only.

Cuticula, a Dim. from cutis, the Scarf-Skin, from its Thinness so denominated, or the upper fine Covering of the cutis.

Cuneiform, ex cuneus, a Wedge; there are three Bones of the Tarfus, which have this Name given them, from such Likeness.

Cylindrical, from the round, long and slender Form, like that of the Cylinder; a Term frequently befowed upon the Tendons of some

particular Museles,

Cymbiform, another of the Bones of the fame Joint, from its Likeness to a Boat, in Latin cymba. Also Naviculare, a little Ship or Boat.

Cyftis: The same with Capsula.

n

Dartus, Gr. Sagras, à Meas, corium, pellis; the second common Coat inclosing the Testis, together with the outer Skin making up the Bag or Cod containing the same.

Decade, ex S'ena, decem, Ten, any thing composed exactly of that Number; here imply'd of the Sections aforegoing.

Deleterious, à Innéw, noceo; some-

thing poisonous or hurtful.

Deliquium, ex delinquo, to swoon; a fainting away; of Kin to Syncope, and Lypothymy.

Delirium, ex deliro, to rave or talk idly; or, as others, the Dreams of a Person awake; one that is lightheaded, in the common Phrase or Mode of speaking.

Deltoides, à Figura A, & ASO, forma; one of the Muscles lifting up the Arm, from such Figure so denominated,

Derivation, a carrying or diverting the Course of the Humours from their present Tendency, by some Passages near adjoining, (See Revulsion,) ex derivo, to derive.

Despumation, ex despumo, to scum away the Froth, to clarify; with us it refers to the Blood, by some Means thrown as it were into intestine Commotion, and after purify'd or cleansed, by throwing forth what was offensive,

Desquammation, à desquamo, to scale Fish; and by Metaphor apply'd to a foul Bone; the outer or Cortical Part whereof riseth in like manner,

and

and is thrown off like a Scale. See Exfoliation.

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Detersion, à detergo, to wipe or scower; the Cleansing away the Filth of a Wound or Ulcer, being the second Gradus or Step to Healing, subsequent to that of their Digestion, or bringing to Matter.

Diagnostic, ex Sid, per, & yiveone, cognosco, the Signs by which we know a Disease present. See Prognostic.

Diaphanous, à Secocive, pelluceo, to shine through; any thing which is transparent.

Diaphoresis, ex δια, per, & φέρω, fero; sensible Perspiration through the Pores: The same with Sweat.

Diaphoretica, Idem. Medicines promoting fuch Perspiration.

Diarrhaa, à Siappes, perfluo, to run through; a Looseness, or Flux of the Bowels.

Diary, à Die, Gr. equipeels, a Day-Book, or Journal; an Account taken daily of what occurs.

Diarthrosis, ex Sià, per, & apleov, articulus; that Articulation of the Bones intended for manifest Motion, of which the three Subdivisions are, Enarthrosis, Arthrodia, and Ginglimus; to be found in their proper Places.

Diastole, ex δια, per, & τέλλω, mitto; the Dilatation of the Coats of an Artery, opposite to its Systole.

Diathesis, à Sudisnui, dispono; the Nature, Frame, or Disposition of the Body.

Digastric, ex Sis, bis, & yashp, ventriculus, double belly'd; one of the Muscles depressing or drawing down the lower Jaw.

Digestion, à digero, the same with Concoction, whether of the Food in the Stomach, before the same is changed into Blood; or of the Contents of some Apostem, turning into Matter.

Diploë, à Sinhow, duplico; the Meditullium, or Medullary Interflete between the two Tables (as they are called) of the Skull.

Discutientia, ex discutio, to dissipate or dissolve; Remedies suited to that Intention.

Disjunction, à disjungo, to sever or part what before was join'd close to-gether.

Diflocation, à difloco, to put out of Place; meaning here particularly the Heads of the Bones, or those making up the Joints.

Diwetica, ex διd, per 2099, wima, & ρέω, fluo; Medicines that promote Urine.

Dura Mater, the outer Covering of the Brain, next under the Cranium; called otherwise Crassa Meninx, to distinguish it from the Meninx tenuis, or that immediately surrounding the Substance thereof: They are called Meninges, that is, Matres, from their being at least the imagin'd Source or Foundation of all other the Nervous and Membranous Expansions throughout the Body.

Dyscrasy, ex Svs, difficile, & xeedryvous, misceo, tempero; the evil Disposition of the Blood and its Juices.

Dysenteria, ex Sus, Evlegy, Intefinum, & sew, fluo, a Dysentery or bloody Flux, attended with Pain and Griping of the Bowels.

Jysepulotica, ex Sus, difficile, and super, & & \(\sum_{\text{of}} \), integer; any Sore or Ulcer that is difficult of healing or skinning over.

Dyspnæa, ex Sus, & mrew, spiro, a Difficulty of Breathing: Of which see Anhelitus.

E.

Echymosis, ab ἐκχύω, effundo, & chiua, sanguis; any Extravasation of Blood upon the Parts, from Bruis

bruife or otherways, making Black Blue Marks upon the Skin; the

me with Sugillation.

Ecpiefma, ab exwitta, exprimo; here taken for a Fracture of the Crawhere the Bone is beat in, and prefleth on the Dura Mater.

Effervescence, ab effervesco, to boil p with Heat; with us a Commotion in the Blood, from fomewhat foreign intermix'd therewith, and like a Ferment stirring up the same.

Effate, ab ex, & fatus, fignifying barren, or childless; but figuratively taken for any thing that hath loft its

Vertue, or is decay'd.

Efflorescens, ab effloresco, to blow as it were, or appear in bloom, of Colour like a Flower; here taken for those Flushings or red Appearances fometime fuddenly thrown out of the Blood, of the like Complexion, on the Surface of the Cutis, either in distinct Spots, called a Rash or Marbling, also in the Measles, or univerfally, as in some Surfeits, and in the Scarlet Fever.

Elastic, ab exauve, agito, expando, any thing fpringy, or capable of fud-

den Dilatation.

Elephantiasis, sic dict. quia corporis superficiem maculis of tumoribus similem faciat Elephantis cuti, according to fome; or, as others, ob morbi magnitudinem, the Leprofy, making the Skin look rough like that Creature: Others term it a Disease principally of the Feet, occasioning them to appear like those in the Elephant: Concerning which Distemper you may confult our Treatise de Morbis cutaneis, Part. I. Chap. 1.

Elevator, ab elever, to be lifted or heaved up, several of the Muscles from that Office going by this Name, 25 the Elevator Paltebra, Humeri, &c. but it is here meant of an Instrument used after Trepanning, to raise up the depress'd Cranium; It is called otherwife Levator, from leve. to relieve, because hereby the Parts underneath oppress'd, are freed from their Disturbance.

Elitroides, vel Elytroides, ab Endbegy, vagina, & 3.80, forma, the first of the proper Coats of the Testis, called Vaginalis, from inclosing the same, as in a Vagina, or Sheath.

Embammata, abov, in, & Barle. immergo, any kind of Sauce or Pickle, like the Condiment before obferved; taken here for those Gummy and Spicy Compositions, used for embalming dead Bodies.

Embrocation, ab subjexe, intingo, any Liniment, Oil, or Ointment, with which the Parts are bathed.

Emetic, ab ¿µέω, vomo, Medicines

to excite Vomitting.

Emmenagogue, ex er, in, ulw, mensis, & dayo, duco, such as are proper to promote the Monthly Vifits of Women.

Emphysema, ab eugusta, inflo, a Swelling from Wind, called a flatulent Tumour.

Empyema, ab cu, in, & woov, pus, a Collection of Matter in the Cavity of the Breast.

Empiric, ab sureledw, tento, one who alledges Experience only for his Practice, without being able to show a Reason.

Emporium, ind To surroper, à negotiando, a Mart-Town, where the Business of Traffick is negotiated, metaphorically applied to the Brain, the great Place of rational as well as fenfative Transaction.

Emulion, ex emulceo, to stroak or cherish, vel ab emulgeo, to milk out gently by the Hand; a common Remedy prepar'd of Almonds and Seeds with Barly-Waters of the Colour of Milk, to affuage Thirst, and demulce or mitigate the Heat, particularly of the Urine, occasion'd by Blifters, and in other Sharpness or Scalding thereof.

Emun-

Emunctorium, ab emungo, to clean, or wipe away, to drein off, as by a Sink or common Sewer; figuratively with us apply'd to certain Glands, as the Parotid, which are called the Emunctories of the Brain; those in the Arm-pits and Groins to the Blood in general.

Enarthrosis, ex ev, in, & apper, articulus, the first Species of the Diarthrosis, or Articulation of Bones, for manifest Motion, that is, where a large Head enters as large a Sinus, such is that of the Femur with the

Coxendix.

Encanthus, ab en, in, & navbos, hircus, a Spongy Excrescence in the inner Corner of the Eye: See Anchylops, and Ægylops.

Encephalus, ab ev, in, & neganh, caput, the Brain in general, and all the Parts contain'd within the Skull.

Encysted, or Incysted, ex ev, in, & nish, cista, any thing cover'd up in a Case or Bag, meant particularly of those three Tumours, Atheroma, Steatoma, and Meliceris; which see in their Order.

Endemic, ex ev, & InuG, populus, a Disease peculiar to some certain Region or Country.

Enema, ab evinus, immitto; the same with Clyster, or an Injection thrown in by the Fundament.

Ensiformis, the Cartilage at the lower Part of the Sternum, or Breast-Bone, lying over the Pit of the Stomach; so termed from its Shape, like that of a broad Sword, and therefore named also Mucronata, and Xyphoides.

Enterocele, ab Evlegov, intestinum, & nnAn, ramix, a Rupture of the Peritonaum by which the Intestine or Gut, coming down by the Rings of the Processus, makes the Hernia called Intestinalis.

Entero-epiplocele, ab evlegov, intestinum, cπίπλοον, omentum, & κήλη,

the fame Accident, when, together with the Gut, the Omentum or Casis also slip'd down therewith.

Epidemic, ex cm, super, & Sinus, populus, the same Disease universally raging at the same Time, in the same and other Countries.

Epididimis, ex em, super, & Mouµ, testiculus, a Convolution of the Spermatic Vessels, before their Entrance into the Testis; the same with Paristata.

Epilepsia, ab ἐπιλαμβάνω, invado, a sudden and universal Convulsion of the whole Body, by the common People called the Falling-Sickness.

Epileptica, five Anti-epileptica, Re-

medies for the fame.

Epiplocele, ex ἐπίπλοον, omentum, & κήλη, a Rupture, with the Caul only falling through the Process: Hernia Omentalis.

Epinictis, ex em, super, & vue, nox, implying any Disorder arising in the Night, particularly meant here of a small Pushule in the Skin, inflaming suddenly: Of which see my Tract of those Diseases.

Epiphysis, ab cmove, accresce, an Additament to the Head of a Bone, or an Elongation of the same, by one that is separable therefrom, or contiguous only, and therein differing from the Apophysis; altho' so closely adnected or joined, as to appear one continued Bone: See Apophysis.

Epiphora, ab δποέρω, infero, i. e. impetus humgrum ab oculis, an involuntary Efflux of Tears; the same with Rhyas, according to some.

Epispastic, ab omoraw, attrabo, a

bliftering Medicine.

Epistropheus, ex emseéou, circumverto; the same with Cardo, a Hinge, the second Vertebra of the Neck, so nam'd, for that the Head turns upon it, as a Door upon its Hinge.

Epithema, ex επὶ, super, & τίθημι, pone, any local Remedy may

be

te fo denominated; Physicians use it chiefly for Liquors, in which Rags being dip'd, and express'd, are laid upon the Part.

Epulotica, ab ensabe, cicatricem

skin over a Wound or Ulcer.

Eryfipelas, exépubes, ruber & rénas, propè, by reason of its reddish Colour; from a Popish Saint it is called also, St. Anthony's-Fire, or Ignis Sacer, the Holy Fire.

Errhine, ab en, in, & pis, nafus, any Application intended for the No-

Rril.

Escharotica, ab escapso, crastam induco, implying the same as the Caustic.

Ethic, abid , mos, the same with

Moral Philosophy

Enlogy, ex ev, bene, & hoy O, fermo, extolling or magnifying.

Euporiston, ex εῦ, facilis, & πορέω, preparo, a Medicine readily, or, s we say, prepar'd upon the Spot.

Eusarchus, ex su, bene, & oage, caro, well flesh'd or corpulent.

Euthanasia, ex el, bene, facilis, & Savalo, mors, an easy Death.

Exanthemata, ab έξανθέω, efflorefco, any Eruption on the Skin; particularly here meant of the Puflules of the Small-Pox.

Excrementations, ab excerno, egero, any Humour thrown forth the Body as uscless, such as Urine, Stool, &c. in Contradistinction to those that are Nutritions.

excrescence, ab excresco, to grow or shoot up, a Fleshy Substance arising upon any Part of the Body.

Excreta & retenta: See Nonnatu-

ralia.

Exfoliation, the shelling off like a Leaf; among the Surgeons implying the same with Desquammation; or figuratively, a thin Scale like a Leaf, rising off from the sound Part of the Bone, as the Scale from Fish.

Exomphalos, ab E, ex, & ¿µçwhòs, umbilicus; umbilici protuberantia, a Rupture of the Navel.

Exostosis, ab H, ex, & oseov, os, extuberantia ossis, a Swelling in the

Bones to called.

Expantion, ab expando, to spread forth or display; with us referring to the Animal Spirits, exerting themfelves with the utmost Vigour, for the Relief of the Parts.

Expectoration, ab ex, & pectus, vel ab expectors, to throw forth from the Breaft, a raising of Phlegm, Blood or Matter from the Lungs, by coughing and hauking up of the same.

Extravasation, ab extra, & vasa, any Humour, but particularly Blood, thrown out of the Vessels, by some Rupture of the same, either outwardly or inwardly, and stagnising round about the Parts, or in the Cavities.

F.

Abrie, ex fabrico, to build or frame any Building or Structure raised by Art; but here figuratively intended of the humane Body, most stupendiously formed by the Wisdom of the Supreme Architect.

Falx, a Doubling of the Dura Mater, in the Form of a Soyth or Syckle, called by that Name, and dividing the Brain into the right and

left Hemisphere.

Ferment, à ferveo: See Effervesco. Fibrilla, a Diminitive, ex sibra, signifying a small and slender Thread, or Shoot from the Roots of Plants; here taken for those of the Nerves, and sleshy parts also.

Fibula, a Clasp or Button, here understeed of the small Bone on the Outside of the Leg, so call'd, as they tell us, from joining the Tibia and Muscles together, as it were clasping them; the Antients used to bring the Lips of Wounds together by a Contrivance,

trivance, unto which they gave this Name of Fibula.

Fifula, a Pipe or hollow Reed; but with us, from the Similitude, a hard and hollow Ulcer, running deep into the Flesh, or Cavities of

the Body.

Flammula, I must confess my felf at a Loss for the Ætimon hereof; in our Acceptation, either literally or figuratively, it is a Derivative from Flamma, denoting a little Flame or Blaze; and with the Surgeons implying a Skein of Silk, at least some part of one, perhaps of a Flame-Colour, and fo taking this Appellative, passed through the Eye of a large Needle, which is then thrust thro' the Skin and Flesh, in order to drein of some Humour from a Sinus or Cavity not fafe to be dilated, or cut open: Which Operation is by the Surgeons named a Seton; the Farriers give it that of Rowelling.

Bones below the Elbow in the Arm, and below the Knee in the Leg, with this Distinction of majus cominus, from their Difference in Magnitude: And thus the Ulna is the greater Focile in the former, and the Tibia in the latter: But from whence rightly derived, I must here also acknowledge I am at an Uncertainty, tho' I well know the Meaning as

well of focillo, as focillor.

Fomentatio, ex foveo, to cherish, a hot Liquor, apply'd with Flannels hard wrung, to the wounded or o-

therwise maimed Parts.

Fomes, a fovendo, aliquid quo ignis fovetur, Wood or Chips, or any other combustible Matter to keep up a Fire or Flame; but with us it is taken figuratively, for the Matter which keeps up a Disease; the same with Pabulum.

Fontanel, quasi parvus fons, a little Fountain; metaphorically among the Surgeons the fame with lifeer as in like Manner leifurely dreining off the Humours in the Blood.

Forus, the same with Fomence

tio.

Fracture, à frango, to break; among the Practisers in Surgery taken particularly for a Breach or Separation in the Bones, by some Force or Violence offer'd thereunto.

Fungus, in the common Acceptation, fignifies a Mushroom or Toad-Stool, ex funus & ago, as bringing Death to the Eater; but here, by Analogy of Substance, any spongy Flesh, springing in like Manner suddenly up, and of the like loose and spongy Nature.

Furunculus, ex furo, to rage, a little painful Swelling, inflaming the Parts, and gathering to Matter, called a Coar, by the common People, a Bile, or Boil.

G

Angrena, à ydy ses, cancer, velà yedw, comedo, a beginning Mortification.

Gargarisma, à yapyaeilo, os col-

luo, a Gargarism.

Saftroeconemius, à yasile, venter, & nvhun, tibia, the two Muscles called external and internal, making up that Part we call the Calf of the Leg, swelling out like a Belly on the upper Part.

Gastrorhaphia, ex yashe, venter, & paph, sutura, the stitching up of

Wounds of the Belly.

Geometrical, ex yn, terra, & μετρέω, metior, of or belonging to Geometry, or the Art of Measuring.

& lavo, to wash, any Lotion or Liquid Composition for the Discases of these Parts, as when affected with the Scurvy or Putrisaction therein.

Ginglymus, à γιγ Γλυμέμαι, per

gingy

of Articulation, usually reckon'd up by Anatomists under Diarthrosis, or that for manifest Motion, which is, when the same Bone receives and is

again received.

Glandula Odorifera, fonamed from their strong or rancid Smell, of which those under the Prapuce or behind the Glans Penis, were so stilled by Dr. Tyson; and to which we think the Parotide, or those seated behind the Ears, have as good Title.

Gomphosis, à youoso, clavum impingo, the last of the Articulations, commonly accounted by the Writers of Anatomy, under Synarthrofis, or which is without Motion; the principal, if not the only Instance whereof, is the Teeth fasten'd in their Alveoli or Sockets, as a Nail in Wood, whence the Name.

Graphical, ex yeépw, depingo, any thing which is exactly or accurately

describ'd.

Grumus, a Lump of any thing congeal'd, ex grumesco, meant here

of Blood under that State.

Gymnastica Medicina, à yuurd (w, exerceo, a Way of curing Distempers by exercising the Body; the Place of strong Exercise, particularly Wrestling, being in Greek termed yuurdator.

Cypleous, from gypfum, Lime or Plaister, the Contents of some encyfted Tumours, having a near Resem-

blance thereto.

H.

Armonia, belongs properly to the Agreement of Sounds in Mufick; as also due Proportion, call'd otherwise Symmetry in Figures; with us it implies a strait or equal Line, or a Conjunction of the Bones by the same; being the second Way reckon'd under Synarthrosis, as the Bones of the Nose: Blancard will have it so named, ab apa, congruo, adap-to.

Hettic, Gr. Exlinds, rupelds, quod en Eles, i. e. in habitu corporis consistat, to distinguish from the Phthisis, or Consumption of the Lungs.

Hemicrania, ex nui, semis, & negrior, calvarium, a Head-Ach on

one Side.

Hemiplegia, ex ημι, femis, & πλήως, percutio, a Palfy on one Side.

Hæmoptoe, hæmoptysis, ex as ua, sanguis, & As of wa, spuo, a Spitting of Blood

Hamorrhage, ex αιμα, fanguis, & ρήγνυμι, rumpo, any Flux of Blood from Wounds or otherways,

Hepatic, ex in ap jecur, the Liver, Medicines proper to open the Obstru-

ctions thereof.

Hernia, à duritie pellis instar lapidis, qua sit post intestinorum descensum, à Sabinorum lingua, qui Herniam, Saxum vocant tamè tò tovo, formarunt, quod cum intestinum incipit in scrotum decidere videtur Ramum facere, undè & Ramex dista, Gr. xnàn, ob similitudinem descendentis rami, ut Hernia, ab tovo, ramus, a Rupture or falling down of the Bowels into the Groin or Cod.

Herpes, ab epww, ferpo, a Tettar

or Ring-worm.

Heterogeneous, ex erecos, alter, & yeu,, fexus; with us feveralthings of differing Kinds mixed together, as happens to that Fluid in our Veffels, we call Blood.

Homogeneous, ex ouds similis, & yev , sexus, Things alike or of

the fame Kind.

Horizontal, any Thing upon a level Figure, as the extreme Circle of the Horizon, terminating our Sight, with the Axis of the Eye, ab beil or finiens, vel vijum terminans.

Horror,

Horror, ab horres, to shake with Cold, common in the first Attack of all Fevers, but particularly the intermitting, called Agues.

Hydragogue, ab v Swe, aqua, & ayw, duco, Medicines to purge Wa-

ter.

Hydrocele, ab υδωρ, & κήλη, a Watery Rupture; the same with Hernia Aquosa.

Hydrocephalus, ex USwe, aqua, & negani, caput, a Dropfy of the Head,

meaning the Hairy Scalp.

Hypersarcosis, ex υπέρ, super, & σὰρξ, caro, spongy or proud Flesh.

Hypothesis, ex uweplishus, suppono, something advanc'd upon Supposition.

Hypnotic, ex Unv &, somnus, Re-

medies that procure Sleep.

Hysteric, ab using, merus, such as are proper for the Womb and its Diseases.

I.

I Chor, Gr. ix wp, a sharp, thin and bloody Humour, slowing from putrid Wounds and Ulcers, the same

with some, as Sanies.

Itterus, ix 12,295, idem quod Aurugo, vel ab aerugine, the Jaundice, so
termed from its Yellow-Colour like
that of Gold, or the Canker or Rust
of Metal, such as that gathering upon Copper or Brass, where the same
have been long exposed in damp
Places, or to the external Air.

Illuvies, ab illuo, vel ex in, & lavo, any Filth or Uncleanness; here meant of that heap'd up in the Blood.

Incarnation, ex incarno, to fill up with Flesh: See Carnified.

Induration, ex induro, to harden, a

Hardness in the Flesh.

Instinct, ab instinguo, to stir up or move; implying the natural Bent or Disposition of all Creatures, to pur-

fue or avoid what is good or hurtful to their feveral Beings; the fame with Archeus, in the rational Species.

Intemperies, ex in, & tempero, any Disorder or Indisposition of the Blood or Humours; the same with Dysoracy.

Ischama, ab lavie, cohibeo, & aµa, sanguis, Blood-Staunchers.

K.

K Atamenia, Sec Catamenia.

L'aday to the

Abrifulcium, ex labium, & fulcus, a chap'd Lip; with us a swell'd upper Lip, having a Crack or Cleft in the Middle, being a Sort of Pathognomonic, or Symptom of the Disease called the King's Evil.

Lacuna, any small Holes within another Cavity, but here underflood of those in the Vagina Uteri, or Sheath of the Womb, from whose Pores issue forth the Humours in the Fluor albus; the same which, according to a late Writer, furnish also the Matter of the Venereal Gonor-rhaa.

Languer, ex langue, to grow faint, a Weakness or Sinking of the Spirits.

Larynx, the upper Part of the Afpera Arteria, or Wind-pipe, as Pharynx is of the Gullet.

Latex, any thin or Watery Humour; with us the vapid, ferous one

of the Blood.

Lenticular, an Infrument used by Surgeons, to smooth the rough Edge of the Cranium, if standing in need thereof, after the Use of the Trepan, to prevent the Membrane underneath from being thereby offended.

Lentuous,

Lentuous, a lento, to make smooth, here meant of the slimy or ropy luices in the Blood.

Levator, ex levo, to raise or lift

up : See Elevator.

Leucophlegmatic, à λάκδς, albus, & φλέγμα, pituita, a Constitution abounding with crude phlegmatic Humours, as in the Disease called Febris alba Virgmum, by the common People the Green-Sickness.

Lienteria, ex heiotne, lavitas, & Eviseov, intestimum, a Flux of the Bowels, when, thro' their Slipperiness, the Aliments pass out undigested, or little altered from what they were, when taken into the Sto-

mach.

Limbus, Gr. AoBòs, a Hem or Border round a Garment; here taken for the outside Compass of the Brain.

Leipothymy, ex λείσω, deficio, & Συμός, animus; the same with De-

liquium, and Languor.

Lithotomy, ex λίθΘ, tapis, & τέμνω, feco, incido, the Operation of Cutting for the Stone.

Lippitudo, i. e. λήμη, δοθαλμία, vel ξυεροθαλμία, a Blearedness of the Eye.

Lixivium, a Lye made with Ash-

es.

Lochia, à N'S X O LOLD, cubo; here taken for the Purgations issuing from the Womb, the first Days of a Woman's Lying in, or after Child-Birth.

Ludicrous, ex ludo, to play, or wanton; with us refer'd to Nature's fporting as it were in some of her Productions.

Lumbago, ex lumbus, & ago, a Pain in the Back or Loins, as happens before the Eruption of the Small-Pox; also after hard Labour, Blows and Falls on those Parts.

Lupia, a fmall Tumour of the incysted Kind, like the Ganglion. Lusus Natura, the same with Abberratio; also Ludicrous.

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Luxuriant, á luxurio, to exceed, cr over-abound; among Artists importing the same with Hypersarcosis, and fungous Flesh.

M.

M Acrocosm, ex μακες, magnus, & κόσμω, mundus, the Great World, in Contradistinction to Man, Metaphorically the Little One.

Magma, ex µaow, exprimo,, the Faces or Remains of a Decoction after the Liquor is press'd forth.

Malleolus, a Dim. from malleus, ob fimilitudinem mallei, the lower protuberating Parts of the Tibia and Fibula, constituting the outer and inner Ankles.

Mamilla, quasi parva mamma, vel mala parvula, the Nipple of a Wo-

man's Breaft.

Mandibulum, ex mando, to chew, the Jaw-Bones, whether upper or lower.

Marasmus, à μαρχίνω, marcesco, to waste or pine, a Consumption of

the whole Body.

Mathematist, idem guod Mathematicus, à μανθάνω, disco, vel μά-βησις, disciplina, one skill'd in Mathematics, as Geometry, Astronomy, &c.

Matrices, the Places in which Infects are hatch'd and nourish'd, as the Fætus in the Matrix or Womb of a Woman.

Maturation, à mature, to ripen or bring to Perfection; with us the Gathering of an Abscess or Apostem.

Mechanism, μηχανικό τέκνη, ars machinalis, à μηχανή, machina, of or belonging to Mechanics or Handicrafts.

Medi-

Meditullium, quasi meditellium, ex medium, & tellus, the Middle of the Earth, called by Navigators the Mediterraneum, and is applied to the very Midst of any Thing else; particularly by Anatomists, the Interstice or middle Space between the two Tables of the Skull, is so denominated: See Dyploe.

Medulla oblongata, a Part of the

Medulla oblongata, a Part of the Brain, fo call'd from its Figure, the Beginning or Source of the Spinal Marrow, whence the Nerves arise within the Skull, before it descends through the great Foramen in the

Occiput.

Medulla panis, the inner or Crumbmy Part of a Loaf, used by the Surgeons for thickening of Cataplasms, or making of Pultifies.

Melanagoga, ex μέλας, niger, ater, & ἀγω, duco, Medicines that

purge Melancholy.

Meliceris, ex µɛλi, mel, & nnelov, favus, one of the encysted Tumours, from its Contents like Honey, so denominated.

Meninx, idem quod Mater: See Dura Mater.

Mesenterium, ex μέσον, medium, & ένθερον, intestinum, the Membrane sustaining and collecting the Guts together in the Abdomen.

Metastasis, ex perisnus, translatuo; among Physicians denoting a Translation or Shifting of a Disease, at least the Matter thereof, from one Part to another.

Metrenchita, ex μήτεα, matrix, & κίω, fundo, a Womb-Syringe.

Metraproptoticon, ex μήτεα, matrix, uterus, & ωεόπωσις, prolapfus, a Plaister or other Remedy for the Falling of the Womb.

Microcosm, ex μιπρος, parvus, & κόσμΘ, mundus, the Little World Man, so call'd: See Macrocosmus.

Myotomist, ex µve, musculus, & reuve, seco, One well vers'd, as we

fay, in Muscular Diffection.

Mithridate, a vulgar Composition of the Shops, taking its Name from its Inventor, Mithridates; though in our Dispensatories going under that of Damocrates.

Mucronata, ex mucro, the Tip, the lower Extreme or Cartilaginous Point of the Sternon, or Breast-Bone, lying over the Stomach.

Mundificantia, ex mundifico, to cleanse, Medicines proper to cleanse Wounds or Ulcers; the same with

Detergents.

Myocephalus, ex μυΐα, musca, & κεφαλή, caput, a Disease of the Eye, in which, by a Rupture of the Cornea, the Chrystaline Humour hangs out of the Perforation, resembling the Head of a Fly.

N.

Arcotica, a rapzáw, stuporem induce, Remedies that take away Pain by blunting the Sensation.

Nascalia, are small oblong Bodies put up into the Vagina of Virgins, in like Manner as the Pessaria into those of married Women.

Natta, a Tumour growing out on the Back, at sometimes of large Dimensions, reckon'd amongst the encysted, and called Wens.

Naviculare, the same with Cym-

biforme.

Necrosis, à venejos, morte afficio, a persect Mortification.

Neurotica, à veuesv, nervus, Remedies for the Diseases of those

Nonnaturalia, ita vocantur quia non in corpore secundum naturam, sicut facultas, nec prater, sicut morbi, sed inter utrumq; nam cibus mediocriter sumptus corpus nutrit, aliter offendit, & sic de cateris; the Nonnaturals, which are reckon'd six, viz.

the Air, Meat and Drink, Sleep and Waking, Motion and Reft, Things evacuated, called Excreta, Things retained, called Retenta, and Paffions of the Mind: on the due and regular Ordering of which great Streis is laid, as to the Healthful or Sickly State of our Bodies, and by which the Sick and Wounded are much affected.

0.

O Edema, ab οιδίω, inflatus from, rumeo, the third of the four general Tumours, arising from Phlegm.

Omoplate, by some Homoplate, ab $\Sigma\mu\Theta$, humerus, & $\pi\lambda d \log$, latus; the same with Scapula, or the Shoulder-Blade.

Opaque, ab opaco, to shade from the Light, any Thing of an obscure or darkish Colour.

Ophrhalmia, ex δοθαλιμός, ocutus, an Inflammation on the outer Coat of the Eye, called Adnata.

Orgafmus, ab opyolow, impetum facio, an Outrage of the Spirits.

Orthopnaen, ex op In, recta, & Tvon, spiratio, that Species of Anhelitus, or difficult Respiration, in which the Sick cannot draw his Breath, unless sitting upright: See Anhelous.

Ofcillation, ab ofcillo, to swing up and down like a See-saw upon a Rope, or Board laid cross a Plank; in our Sense apply'd to the tonic Motion of the Fibres, like to that of the peristaltic One of the Guts.

Osteocolla, ος έον, ος, & κόλλα, gluten, a Kind of Focil, taken from under Ground in fome Parts of Germany, endow'd, at least supposed, with great Vertue in forwarding the Callus, or Cement for broken Bones.

Ofteology, ex desiror, os, & None.

fermo, vel heyw, dico, a Discourse of the Bones in general.

Ovarium, the Ovary, or Egg-bag, in Fowls; in Women the Teffis, from its supposed Analogy therewith, in this last Age so termed.

Oxycratum, ab οξΘ, acetum, & κεράγνυμι, miscea, a Mixture of Vinegar with Water.

Oxydercica, ab ¿¿¿, acutè, & Péqnw, video, Remedies to strengthen or quicken the Sight. in In

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Oxyrhodinum, ab ozo, acute, &c pod ov, rofa, an antient Form of Remedy prepar'd of Rose-Leaves and Vinegar, which in Head-Achs was wont to be laid on the Forehead.

Ozena, ab ocu, olfacio, a stinking Ulcer of the Nostril so term-

P

PAbulum, à order, metric Forage or Sustenance; also Fewel for the Fire, or Oil for a Lamp; the same with Fomes.

Pampiniforme, ex pampinus, & forma, the Spermatic Vessels in their Descent to the Tesses, from their divaricating like the Tendrils or Twigs of the Vine, so named by Anatomists; the same with Varicosum Corpus.

Pancreas, ex may, totum, & upfas, caro, that Part in Animals call'd the Sweet-Bread.

Panus, quasi panis, a Swelling with Inflammation rising under the Chins of Infants and young Children, appearing like a little Loaf, and usually turning to Matter; the same, according to Celsus, with our standards.

pungo, the Operation of Tapping for the Dropfy, call'd Assites.

Paradox, ex παρά, prater, & δοξα, opinio, somewhat advanced, appearing

appearing strange or contrary to the common Opinion, however proved to be true.

Paralysis, ex Taganus, resolvo,

the Palfy.

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d. Iti**nk**- Paraphrenisis, ex maeg, de, & oplus, mens, i. e. mentis affectio, a Frensy or Delirium, arising, according to the antient Opinion, from an Inflammation of the Diaphragm or Midriff, to which they were wont to give the Name of oplus, or mens, from its great Consent, as they supposed, with the Brain.

Paraplegia, vel parplegia, ex par, i. e. aqualis, & πλήτω, percusio, a Palfy of both Sides, or of all Parts

below the Head.

Paregoric, ex παρηγοςίω, lenio, mitigo, Remedies to affuage Pain, whether by inducing Rest, or otherwise soothing the Spirits, and, according to Helmont, delighting the Archaus.

Parenchimatous, à παρεζωύω, infundo, vel ex παρεζ, & χυμός, fuccus, the Substance of the Liver, Spleen and Lungs; and in general to be understood of the loose and Juicy Stuffing, giving Bulk to some others, and filling their Vesiculous Parts.

Parietal, quasi pares, for that there are two of them; the Bones of the Synciput, like Walls, in Latin paries, defending and incompassing the upper Part of the Brain; the same with

Bregma.

Paronichia, ex naeed, juxta, &c ovo &, unguis, a painful Swelling a-about the Nails, called by our People a Whitlow, or a Whitflaw, and the worst Sort a Felon; of which see our Treatise de Morbis cutaneis.

Parotides, ex παοά, pone, & ές, auris, a Swelling behind the Ears, or of those Glands we have before

Miled Odorifera.

Paroxysmus, à παεοξύνω, exacerbo, the Time of a Fever-Fit, or its Exacerbation, when the Heat, Reffler ness and other Sypmptoms, are most

raging.

Pathognomonic ex maisos, paffo, & yivo na, cognosco, fome peculiar Symptom always attending upon the same Disease, and by which such Distemper is known to the Physician from others of near Resemblance; as the dry Cough and hard Pulse, with Pain in the Side, in the Pleurify.

Pedunculus, quasi pes parvus, the Stalk or Steal of a Plant; but here meant of the finall Roots or Bases of some Wenny Tumours, or other Excrescenses sprouting forth several

Parts of the Body.

Percolation, à percolo, to strein through a Seive, any streined Liquor of a Decoction or Insusion; but here applied to certain Juices secerned, and as it were streined through the Pores of the Glands.

Pericranium, ex weel, circum, &c negrior, caput, the Membrane immediately investing the Outside of

the Skull

Periosteum, ex, weel, & or sov, os, that which cloaths all the other Bones of the Skeleton.

Periphery, ex reel, & ospe, circumfero, the outside Line of a Circle, or the Circumference of any

Body.

Periphimolis, ex reel, & oluss, obturamentum, a Swelling of the Prapuce and Glans, by the former being forced behind the Neck of the latter, there as it were strangling of the same.

Perippeumony, ex πεεί, circum, & πνούμων, pulmo, an Inflammation of the Lungs.

Peristaltic, ex recession, contraho, ardo, the constant and incessant Mo-

tion of the Guts,

Pernio, à perna calcaneum, ut Gr. χειμεθλον, à χείμα, hyems, a Kibe or Chil-blain.

Cca Peffa-

Peffarium, idem quod Peffus, a Form of Remedy prepar'd of Gums and other Materials, of an oblong Figure, to be introduc'd by the Pudenda of Women, for the Relief of the Womb, as its Bearing-down: See Nascalium.

Pestilential, à peste, some highly malignant and contagious Fever, of

kin to the Plague.

Phagadena, à φάγω, edo, & δάκνω, rodo, vel ਨੇਸ਼ਾਂ ਜੰਡੇ φαγεῖν, ab edendo, a stubborn, corrosive or eating Ulcer.

Phalanges, a Military Term borrowed from Souldiers placed in Aray of Battle, a Four-square Army being called Phalanx; here refering to the Bones of the Carpus placed in like Rank or Order.

Phantome, à ocive, appareo, an imagin'd Apparition in Sleep, or fome whimfical Phancy of a Per-

fon as it were dreaming.

Phoenomenon, ex pairoual, appareo, taken usually for some Appearance in the Air; but with us for somewhat carrying a Resemblance to, or shew of Truth, by way of Inference or Deduction, intended to countenance some Proposition, or for Support of an Hypothesis.

Phimosis, ex $\Phi i \mu \Theta$, obturamentum, the Contraction of the Prepuce at the End of the Glans, as the

Periphimosis over its Neck.

Phlegmagogue, ex Φλέγμα, pituita, & ἔγω, duco, Medicines to purge off the phlegmatic Humours of the Blood.

Phlebotomy, ex Φλέψ, vena, & τέμνω, feco, the same with Venafection, or opening a Vein with a

Lancet.

Phlegmon, à Φλέγω, inflammo, wo, any Inflammation; but particularly meant of the first of the four common Tumours, reckon'd by the antient Writers.

Phlegmonoides, ex Φλεγμονής phlegmon, five inflammatio, & eldos, forma.

Phrenitis, phrenisis, à polis, mens, i. e. mentis alienatio, a Frensy or

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Madness: See Paraphrenisis.

Phthisis, à Φθέω, corrumpo, taken usually by Physicians for a Consumption of the Lungs, called a Pulmonary Phthisis.

Phygethlon: See Panus.

Phyma, à Φύω, cresco, vel Φύομει, nascor, a Swelling or large Boil, or in general any Apostem; but particularly applied to those glandulous Tumours of the Jaws of Infants and young Children, frequently inflaming and turning to Matter; also a Swelling near the Fundament, going by the same Name: Celsus calls it by that of Tuber, from its Likeness to a Puff springing out of the Ground; Blancard gives this Name of Phima to the Verruca Manus, & Calli Pedum, as also to other cutaneous Excrescences.

Physic, à Duois, natura, implying in general any Part of Natural Philofophy, but here particularly restrained

to Medicine.

Pia Mater, seu Meninx Tenuis, the Membrane immediately investing the Substance of the Brain: See Dura Mater.

Pituitous, ex pituita, Phlegm of

fuch Habit or Constitution.

Plethora, à TANT w, impleo, implies a Fulness of the Blood-Vessels, a full Habit of Body, called otherwise plethoric.

Pleuritic, à madea, latus, an Inflammation of the Pleura, or Membrane covering the Ribs, a Pleu-

rify

Pneumatocele, à συνεύμα, ventus, & κήλη, ramix, a Windy Rupture; called otherwise Hernia Ventosa.

Poly-

Polypus, ex Tolvis, multus & Tis, pes, a Hog-Louse or Som-Bug, from its great Number of Feet called also Millepedes: likewise a Fish bearing that Name, and with us a spongy Tumour in the upper Part of the Nostril; quod polypi marini sit similis, nam & carne eum resert, or multas habet radices, uti piscis ille pedes, says Vossus.

Posca, the same with Oxycra-

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Pracordia, ex pra, & cor, the Vital Parts in general, or those about the Heart, the Region of the Breast.

Pradominion, ex pra, & domino, the

Mastership or Government.

Praponderate, ex prapondero, to outweigh or bear-down the Scale, any Thing exceeding in Weight or Gra-

vitv.

Praputium, à praputando, prascindo, the Prapuce or Fore-skin, so called for that the same was cut off by the Fewish Rites, or according to the Law of Moses, in the Old Testament.

Procatartic, à προκαθάρχω, antegredior, an Antecedent or fore-leading

Cause to the Disease.

Procidentia, à procido, to fall down,
a Bearing-down of the Womb or

Fundament.

Prognostic, a πεογνως μω, pracognosco, a Fore-telling of the Issue or Event of a Disease, founded upon a right Knowledge of its Nature, and common or customary Way of its Termination.

Prophylactic, à προφυλάσω, prafereo, any Remedy taken by way of Prevention, or as preservatory against

a Disease.

Prolapsus, à prolabor, to slip down; the same with Procidentia.

Pronation, is when the Arm is fo inclined, as that the Palm of the Hand is turn'd inwards and downwards; as Supmation is when the fame is placed upwards, with the Back of the Hand downwards; by Means of the Muscles inservient to those Motions.

Prothesis, à necosionus, appono, a Part of Surgery or Mechanics, rather teaching to supply some Defects of the Limbs, as in the artificial Arm, Leg, Eye, Nose, &c.

Prothetic, the same with Prothe-

fis.

Protopathic, ex πρῶτΘ, primus, & πάχω, patior, the Part primarily or first affected, to difference it from that suffering by Sympathy, or Confent with some other.

Ptialismus, à की vw, spuo, the same

with Salivation.

Ptisana, a Alice, decortico, a Liquor of the Antients, called Ptisane, given for to allay Thirst in Fevers, from the Barly therein unhusked and boiled for decorpinated

boil'd, so denominated.

Pyxis, Gr. $\pi \nu \xi l_s$, à $\pi \nu \xi \Theta$, the Box-Tree, from whence usually they were made, a Box or Cup; here apply'd to the Hollow in the Hip-Bone, receiving the Head of the Os Femoris, or Thigh-Bone, as into a Cup or Box.

Pubescency, à pubesco, to grow up,

the Age of Youth or Puberty.

Pulsation, à pulso, to knock or thump, the Stroak of an Artery, called the Pulse.

Pulticular, of a Pultis-like Consi-

ftence

Pufillanimity, ex pufillus, & animus, Cowardice, one that is fainthearted.

Q.

Uinsy, See Angina.

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R. Rames

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Anula, quasi rana parva, a Tumour under the Tongue; so named, either from some fancy'd Resemblance thereto, in its Shape or Figure, or for that it makes the Patient imitate, in his Voice, the croaking hoarse Noise of the Frog.

Raphe, the same in Greek as Sutura in the Latin; implying, in the Sense of Anatomists, the first Species of Articulation of the Bones, particularly the Cranium, under Synarthrosis, or without Motion, called Suture or Indenture: See Sutura.

Regimen, à rego; in a Physical Sense importing the due Ordering or Government of sick People.

Repullulate, ex repullule, to bud afresh; here taken for the Flesh in Ulcers, sprouting as it were up a-new.

Repulsion, à repello, to drive back, a Repelling of a Humour flowing to the Parts, by the Means of stiptic or restringent Medicines.

Referate, a refero, to unitop, an Opening of the finall Tubes or Pipes of the Body, obstructed by Humours therein, as it were stagnant and lock'd up,

Resolutive, à resolvo, to unloose; Remedies intended to breathe forth the Humours impacted in the Skin or Flesh.

Resonitus, ex resono, to resound, an Eccho or Sound in the Air, drove back, as in some Places, whence it came; among Surgeons it is taken for a Fracture or Fissure in the Cranium, in some Part directly opposite to that which is struck, being the same with the Contrassissure.

Restrictive, a restringo, to bind hard; a Medicine intended to lock up the Poresand Passages of the Vestels, and thereby inhibit the shed-

ding forth of their Contents; of kin to the Repullive, and directly contrary to the Resolutive and Reserating.

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Retenta & excreta, one of the Six Nonnaturals: See Nonnaturalia,

Revulsive, a revello, to call off as it were, and pull back, to draw off a Humour by a Way quite contrary or opposite; and thus a Blister in the Neck makes Revulsion in an Inflammation on the Eyes or Fore-part of the Head, as also from the Breast; bleeding in the Feet, revels also from the upper Parts or those above: See Derivation.

Rhyas, Gr. puès, à pew, fluo, oculorum fluxio: See Epiphora.

Rigor, a rigeo, to grow stiff with Cold; among Physicians denoting a studen Shiver, or Shock of the whole Nervous System, frequently recurring, a universal Spassm, a Symptom of the worst Kind, frequent upon Amputations, Fractures attended with Gangrene and Mortification, and some Kinds of Fevers.

Rima, a Rift or Cleft in Wood; with the Surgeons a Fiffure or Chink like Division of the Bones of the Skull, happening by Blows or Falls.

Rimula, quasi parva rima; Anatomists give this Name to the Cartilaginous Rings of the Wind-pipe, whose Interspaces are fill'd up by its Coats or Membranous Expansitions, fastening them at equal Distance from each other, quite through the Pulmonary Lobules.

Rythm, à public, ad numeros aptos refero, vel à gubuos, a Term in Mulick and Poetry, relating to exact Numbers, or due Harmony; with Phylicians taken for the Diflance of Time between the Syfole and Diaftole of the Artery, or the Interspace between the Vibration of its Coats.

Rup-

Rupture, à rumpo, to break; distinguish'd by the Practitioners of Surgery, from the Fracture, in that the latter relates to a Breach in the harder Parts of the Body, the Bones; the former to a Rent in the fofter; but particularly now understood of that made in the Peritonaum, or Rim of the Belly, letting through the Bowels into the Groin or Cod: Or as by the Word Fracture, is imply'd a Solution by Breaking, in the Rupture there is also a Rending or Tearing: Or in other Words, as frango, fignifies to break, so rumpo, to rend or tear in funder.

S.

Sand, Gravel, or Rubbish, with which they ballast Ships; by a Figure taken among Physicians, for a Heap of filthy Humours congested in the Stomach, and prima via, of some morbid or diseasy Bodies.

Sazittalis: See Sutura.

Sarcocele, ex saps, caro, & nhan, ramex, a Fleshy Rupture; called by the Surgeons Hernia Carnosa,

Sarcoma, idem; any Fleshy Excrescence, or Tumour of a Fleshy

Substance.

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Sarcotic, ex σαρκόω, incarno; Medicines that fill up the Hollow of Wounds and Ulcers with new Flesh; the same with Incarnation.

Scabies, à scabo, to scratch, the Scab or Itch; Pruritus, à prurio, de-

noting the same Distemper.

Sealprum, à scalpro, to raspe or rase; an Instrument with which the Surgeons scrape off the Rottenness of the Bones, called Rugining.

Schirrus, à ouippes, indure, the last of the four general Tumours; from its Hardness borrowing that

Epithet.

Schrophula, vel Scrofula, Gr. xoreddes, idem quod Struma; according to Celfus, à suibas, sic dict. qui
peculiariter hoc morbo infestantur, unde ut Porcellus à porcus, sic Scrofula
à scrofa: Whether so or not, 'tis
certain the Word Scrofula stands in
our common Lexicon, for a little
Pig: But with us is meant a Disease of the Glands, going under the
Name of the King's Evil.

Scrobiculum Cordis, the Pit of the Stomach, called of some the Heart-Pit; the Word Scrobiculum standing for a little Pit or Furrow.

Scutiform, ex scutum, & some, fignifying an Application Plaister-wife to the Stomach, in the Figure of a Shield or Target worn by the Antients, to defend the Heart from the Arrows or Darts of the Enemy.

Secerned, à secerno, to separate one Thing from another; imply'd here of the Liquor or Juice separated by the Glands; the same with Secret-

ed.

Sedes, a Seat or Point, the Spot in the Dice; with the Surgeons taken for the fame Thing in the Bone, as the Puncture in the Flesh; an Impression in the Skull particularly, occasion'd by the Point of a sharp Instrument struck forcibly thereinto.

Septic, à σήπω, putrefacio; Medicines to waste proud Flesh, of a middle Nature, between the Cathe-

ratic and Cauftic.

Seton, a fort of double Fontanel, kept open by drawing a Flammula through the Skin, at about an Inch Distance each Orifice from the other; made for the most Part, or of Choicc, in the Neck, to discharge certain Humours offending the Head or Eyes, or for Relief of the Breast, as in Asthma's, and stubborn Cartarriw; likewise of Necessity in other

ther Parts, to give Vent to some Matter that lies too deep for cutting open the Cavity, and cannot otherwise be empty'd: See Flammula.

Singultus, à singulto, to sob; a Convulsion of the Æsophagus, according to some; or, as others, of the upper Orifice; called the Mouth of the Stomach; the Hiccup.

Siphylis, idem quod Morbus Galli-

cus, five Lues Venerea.

Sopor, à sopio, Gr. noi unoit, noua, the same with Coma Somnolentum, a profound Sleep, with Snoring as in a Lethargy, being a common Attendant upon Fractures of the Skull, with Concussion of the Brain, and great Extravasation of Blood upon the same.

Sordes, à fordeo, vel fordesco, any Filth or Nastineis, through Sluttish Neglect, gathered together; but with the Surgeons, implying the putrid Filth lying undigested in some Wounds and rotten Ulcers, being thick, and sticking fast there-

in.

Spafmodic, à onde, contraho, a Convultive Twitch or Vellication of the Nerves; any Cramp-like Difor-

order thereof.

Specific, ex specifico, Gr. el Somoieu, ex species & facio, a Medicine peculiarly suited by some intrinsick Property, or Way of acting less known to us, to subdue a Discase; though now the Subterfuge of many Quacks and Emperics, who cry up the most ridiculous Medicines, under the same Denomination.

Speculative, à speculor, the studious or inquisitive Part of Medicine; the Theory, to distinguish from the Practic, or experimental.

Sphacelus, Gr. σφάκελ ; the

fame with Necrosis.

Sphineter, à σφίγ ω, constringo, an orbicular Muscle, or one that is com-

pos'd of circular Fibres, by which contracting themselves, they are enabled to purse up or shut close the Parts they belong to; of which Sort are the Sphincters of the Bladder, Anus, Vagina Uteri, and the Lips.

Stagma, à ord a, stille, a Caustic, or burning Liquor, drawn by

Chymistry.

Steatoma, ex seap, adeps, febum, one of the encysted Tumours; so nam'd from its Contents, like that

of Fat or Suet.

Stigma, Gr. siyua, à siçu, pungo; properly the Mark or Brand left after the Burning of Theives and Fellons, in the Forehead or Cheeks, whence the Word Stigmatizing imply'd antiently fome great Reproach; but with us it stands for a Seam or Scar left behind a Wound, Ulcer, or other Distemper preceeding; the same with Cicatrix.

Stimulus, à stimulo, to spur on, or prick; any Thing which irritates or gauls the Nervous Fibres, exciting therein some powerful Contraction, by which the Fluids are quicken'd in their Motion, Glandular Secretion augmented, and the Spirits, before dull and torpid, roused up to shake off the Enemy; the principal of these are Blisters, which, in all Sleepy Distempers, malignant and other Nervous Fevers, do more than all other Remedies besides.

Stria, à strio, the Chamferings and Cellular Partitions observable in some

Bones.

Struma: See Scrofula.

Styloides, ex sun , flylus, & E-SO, forma, a Boney Process for call'd, from its Likeness to a Bodkin or Pencil; there are two such rising out of the Base of the Skull, and one an Appendage to the lower Part of each Ulna at the Wrists.

Sub-

Subiuxation, ex sub, ex luxo, a Bone as it were half out of Joint, when by a Stretch of the Ligaments fuddenly, or their gradual Relaxation, the Head of the Bone moves out of its Cavity, lying even with, or on the Brims of the Cup, which may be possible in the Case of congested Tumours about the Joints, especially those of the Hip or Shoulder, relaxing of the faid Ligaments; but otherwise, I believe, seldom happens: This Accident is named by some a Demi-Luxation, by others a Semi-One.

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Subsultus, ex subsulto, vel ex sub, & falto, a Capering, Jumping, or Dancing; figuratively by Phylicians for those Jerks and Leapings of the Tendons, particularly of the Hands and Wrists of dying Persons, or those labouring under malignant Fevers; which are always reckon'd amongst the most threatening Symptoms.

Suffusion, à suffundo, a Darkness or Cloudiness of Sight; of some Affi-

nity to the Cataract.

Sugillation, à sugillo, to make Black and Blue: See Echymosis.

Sulcus, a Furrow, Ditch Trench; taken with us for a Tract made in the Cranium, by the Saw in Trepanning; or the Furrow in an Instrument called a Director, used in dilating of Sinuous Ulcers,

Superfetation, à superfeto, to conceive again, or before the Delivery of the first Young, already impregnating the Female; but here meant of Nature's Luxuriancy in iome Vegetable Productions.

Supination, that Position of the Arm, whereby the Palm of the Hand is turned upwards, contrary

to the Pronation.

Suppuration, à suppuro, to ripen, ex sub, & pus, quod in purem convertitur humor, the Ripening of a Tumour, or bringing it to Matter; the same with Maturation.

Sutura, the first of the Species of Articulation, under Synarthrolis, longing to the Bones of the Cran um; being a Sort of Indenture from the Points or Teeth interchangably entering one another on either Side; of which the chief are the Coronalis, Sagittalis, & Lambdoi des; the first so nam'd from its incompassing the Head like a Crown the second from its running length ways, like a Dart over the Top of the Head; and the last from its Refemblance to the Greek A behind on the Occiput.

Sutura, à suo, to stitch or sow together, the Sowing up of Wounds in order to their Symphifis, or Union by the first Intention; of which there are two principal, the Inter

rupted and Continued.

Sutura sicca, the dry Stitch, perform'd by Cloaths ipread over with some Emplastic Medicine, and being laid on the Parts, so soon as they ar dry'd on, passing a Needle through the Edge or Selvedge thereof, instead of the Skin or Flesh.

Symmetry, ex owi, cum, & ue-Teov, mensura, a due Proportion of all Parts making up the Whole; an exact Harmony or Agreement one with the other, in their Figure and Situation.

Sympathic, à συμπάχω, compatior, a Suffering by Sympathy, or Consent one Part with another, a Fellow-feeling, as we fay comonly.

Synarthrofis, à owi, cum, & ap-Degy, articulus, that Articulation of the Bones joined by fome Medium, and not intended for manifest Motion.

Synchondrosis, ex ow, & xov-Jey, cartilago, a Joining of Bones together by a Cartilage; as in the Ribs with the Sternon.

Sincope, à ouncé fle, concide, a falling down fuddenly, or dying away,

fainting Fit.

Syndromia, our eguit, Concursus, a Train of Symptoms, concomitant, or attending upon the fame Di-

flemper.

Synemensis, à our, cum, & interest Membrana, a Conjunction of Bones by a Membrane, as in the Fatus, those of the Front or Forehead with the

Syncipus.

synovia, forte à oui, é ovam, the Humour flowing from Wounds or Ulcers in the Joints, or among the tendinous and nervous Parts; by its congealing instantly over the Flame of a Candle, or Heat of the Fire, conjectur'd to be a fuccus nutritius dripping therefrom.

Symenosis, à owi, cum, & rever, sende, Conjunction by Means of

Tendons.

Syffarcosis, à oui, & odo E, caro, a

joining by the Help of Flesh.

System, a run, cum, & saw, sto, the whole Body of a Science, or the sereral Parts thereof connected.

syflole, Gr. συςολή, contractio, meaning that of the Heart and its Arteries; the contrary to Diaftole, or Dilatation.

T.

Abes, à tabesco, to pine away or dissolve; a Consumption of the Body; the same with Marasmus.

Talpa, an incysted Tumour of the

Scalp.

Talus, the same with Astragalus.

Tantalus, whom the Poets feign, as a Punishment, to have been so placed in Water up to the Chin, with Fruit bobbing against his Lips; yet so as that it was not in his Power to stoop to quench his Thirst with the one, nor to catch the other, for Relief of his Hunger.

Taraxis, à raecase, turbo, a Difease of the Eye, of kin to Ophthalmia.

Terebellum, quasi parvum Terebrum, a Gimlet or finall Peircer, ufed by Surgeons for perforating the Bones.

Tegument, à tego, to cover, the Skin with the other Membranes invefting the outer Parts of the Body.

Temperamentum, à tempero, to mix or mingle together; referring here to every Man's particular Constitution or Temperament.

Temperies, a Temper, or Mean, as to Heat, Cold, &c. in fuch Temperament; a well constituted habit of

Body.

Tenefmus, à tento, to try; a troublesome Endeavour to go to Stool, without voiding any thing unless Macus, recurring frequently through Irritation of the Sphincter, from a sharp and stimulating Matter issuing out of the Glandules of the Guts, after Dysenteries, and other Fluxes of the Bowels, of long Continuance.

Tention, à tendo, to stretch; a Distention of the membranous Parts through an Afflux of Humour.

Teredo, a Worm that eats into Wood, in Greek Tepnewy taken metaphorically for a Caries, or Rottenness in the Bones, appearing in like manner as if Worm-eaten, by the corrosive Humour preying upon, and altering their outward Frame or Texture.

Teres, the Ligament tying the Head of the Thigh Bone to the Cup or Acetabulum in the Coxendix, to called from its even, round, and flen-

der Figure.

Testaceous, ex Testa, a Shell; any of those shelly Substances or Grits, called Absorbent, from their Faculty of destroying sharp Juices. See Absorbent, also Alkaline.

Testis, signifying a Witness; figuratively apply'd to the Stones, quod restantur esse virum, according to some.

Theoria,

TABULA ATTOLOGICA.

Theoria, à Jeopéo, contemplor, the speculative Part of any Art or Science, called Theory, in Distinction of the practical Part thereof. See Speculative.

Therapeatic, à Isean &w, fano, that part of Physick teaching the Cure of

Diseases.

Thyreoides, ex Jupeds, featum, & 200, forma, a Cartilage of the Windpipe, so named from its Shape, like an ancient Shield or Buckler, called

otherwise Scutiformis.

Thyreoarytanoides, ex Dupeds, scutum, apiw, aerem haurio, avolyw, aperio, &c 20 forma, a pair of Muscles proceeding from the Cartilage beforementioned, serving to contract the opening of the Aspera Arteria, or Wind-pipe; concerning which see Arterioides.

Tonic, à reive, intendo, the proper inherent Power of Contraction and Extention of the muscular Fibres, their Spring or elastic Force, to extend and draw themselves back again.

Topic, à τόπ 🕒, locus, an external

Application to the Parts.

Torrefy'd, à torres, any thing dry'd before the Fire, in order to pulvarife, or reduce to Powder; more commonly apply'd in physical Prescription, to the Root of Rhubarb, first cut into thin Slices, and after

torrefy'd.

Toxic, Toxicum, Gr. Tozinov, quasi taxicum, à Taxo Arbore: vel à Tozov, arcus, quia sagitti soluti sunt veneno perungere; a Term, it seems, borrow'd from the poisoning of Weapons, and, with us, understood of any Venom or Poison whatever. See Deleterious.

Traumatic, à traumat, vulnus, vel a traumatica, vulnero, Remedies

for wounded Persons.

Tremor, à tremo, any trembling or shaking whatever, particularly that attending the Paralysis, also malig-

nant Fevers; which, together with the Subsulsus, portend very often, in these last Cases, approaching Death,

Tubercula, i. c. Tuber parvus, any Bump or Knob rifing in the Skin or Flesh underneath, sprouting like an Excrescense, such as Pimples, Warts,

Gre.

Tubuli, a diminitive from Tubus, a little conduit Pipe, conveying Water from a Fountain hard by; with us figuratively taken for the blood Veffels, both Veins and Arteries, carrying their Liquor to and from the Heart; the small Branches also of the Lympheducts, and of the Nerves themselves, are often called by the same Name.

Tunic, a tunico, the fame with Tegument; but farther apply'd as to the Veffels themselves, and viscera contained under the latter or outer Teguments, and cloathing or invelving the same.

Tumor, à tumeo, any swelling what-

foever.

Tympanites, a fwelling of the Belly, fo called for that the Membranes of the Belly, are fo expanded and firetched out by a flatulent or windy Diffurbance, as that being firuck upon, it founds like a Drum, called in Latin Tympanum.

Tympanum, the Membrane expanded over the meatus auditorius, or Paffage of Hearing; from its Likenels to that over the Drum-head, infervient to the Conveyance of Sounds to the

Senforium, so denominated.

Tyro, a Novice in the Art, a young Beginer.

V Agina, a Cafe or Sheath, here meant of the Paflage leading from the Pudendum to the Neck of the Womb.

Vaginalls, ex Vagina, any thing that encloses fome other Parts; here particularly applied to the outward pro-

per Coat of the Testis, or which encompasseth the same.

Valetudinary, qui adversa valetudilaborat, a fickly Person, one of an

infirm State. Varicocele, idem quod Hernia va-

ricofa, a Rupture of the spermatic Vessels, or the same by some distemperature of the Blood, or in the Vefels themselves, become varicous.

Varicofum corpus. See Pampiniforme. Varix, à varus, i.e. obtortus, by the Surgeons understood of those black, knotty, distorted and swell'd Veins, observable more especially on the Legs of certain Persons, distended with a gross and faculent Blood.

Varolous, ex variolis, of or belonging to the Small-Pox, or rather the Fever accompanying that Distemper.

Vectis, à veho, quod super eos, pondera vehebantur & elevantur, a Leaver, unto which the Muscles of our Bodies are aptly compar'd, for their Office and Use in lifting and moving others besides their own.

Vehiculum, à vebo, to carry or convey in fome Machine, as Coach or Waggon, from one Place to another. forma. See Enliformis.

Among Prescribers of Physic to the Apothecary, it denotes any Liquor in which to dissolve a Powder, or Bolus, for its easier and cleaner Conveyance to the Stomach.

Venasection, ex vena, & seco, the fame with Phlebotomy.

Verminous, ex vermis, a Worm, a Fever so termed thence arising; also an Ulcer, from its peculiar Putrefaction fostering those Creatures.

Vestige, Vestigium, ex vi, & stigo, Gr. siye, a Mark or Impress, like that left by a Foot in Snow or Clay, or the Seal on Wax; but here meant of the Remains of some former Distemper, by which to discover the fame had preceeded, as the Pits of the Small-Pox, the Seam or Scar, left after a Wound or Ulcer.

Vibration, à vibro, to shake; usually ascribed to the Motion of a Pendulum, but here intended with that of the Heart; the fame with Pulfation.

Xyphoides, à Zio O, enfis, & ASO.

FINIS.

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